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Winter and Summer Issues, 1s. each, Post Free.



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### SPECIAL ADVANTAGES.

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- Flexibility and Solubility.**—The Capsules retain their flexibility for any length of time, and are always readily soluble.
- Do not Adhere.**—Although very soft and flexible, they do not stick together even in hot weather.

Capsule form a ready means for the administration of nauseous medicines, and, from their shape and flexibility, they can be readily swallowed by patients who experience a difficulty in taking pills.

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LONDON, S.W.



# THE CHEMIST & DRUGGIST SUPPLEMENT.

LONDON: 42 CANNON STREET, E.C.  
SATURDAY, FEBRUARY 11, 1899.

Businesses for Disposal  
Businesses Wanted  
Premises to Let  
Auction Sales

## ALSO EXCHANGE COLUMN.

For Bargains see last page of this Supplement.

Partnerships  
Situations Vacant  
Situations Wanted  
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

## The Man who pays 1/- or 3/6

for an advertisement in this Supplement has to pay cash; so he becomes an exceptionally critical person in respect to the value of the advertisement. That is a fair statement. Now, what do we find? Advertisers tell us their results—ten, twenty, thirty or more replies, summed up in the five words—"Suited; don't repeat the ad." And alongside that there is the fact that this Supplement has grown from a modest thing with a dozen advertisements in it to the present proportions.

The growth has been as gradual as phenomenal, which is the best proof that it is based on a sound foundation—extensive circulation and quick returns. When you want to advertise, please remember

## "The Chemist and Druggist" Supplement.

# CHEMISTS' TRANSFERS.

## MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

**VENDORS** have the advantage of Messrs. O. & Co.'s direct attention and advice as to value without additional fee.

**PURCHASERS** are invited to forward a statement of their requirements, which will be notified in a register free of charge.

**VALUATIONS** having always been a prominent feature, Messrs. O. & Co. trust that the lengthened period during which they have enjoyed the confidence of the profession will be regarded as a sufficient proof of the sincerity of their endeavours to conduct these transactions in an honourable and straightforward manner.

1.—£1,300.—**LONDON (Good-class Suburb).**—First-class Dispensing and Retail Business; returns last year exceeded £1,300; *net profit* £400; the shop is handsomely-fitted and well-stocked; modern house; 21 years' lease; price £1,200.

2.—£700.—**LONDON, S.W.**—General Retail Business, situate in the High Street; returns, present rate, £700, *with good profits*; price £350.

3.—£275.—**LONDON, N.**—Death vacancy; old-established Business, situate in main road; returns last year £275; present rate about £5 per week; intending investors with about £250 at command can have particulars.

4.—£1,000.—**EPHING FOREST (near).**—Old-established Business; Retail and Family Trade, with Wholesale for one Speciality attached; returns between £950 and £1,000; the population of the locality is very much increasing; good stock, &c.; price to be arranged.

5.—£600.—**LONDON, N.**—Old-established Business; Dispensing and Retail; returns about £600 yearly; handsomely-fitted shop; good house; held on long lease; price £475.

6.—£350.—**LONDON, S.E.**—Small profitable Business; main road; returns £7 per week; well-fitted shop and good stock; convenient house; good garden; low rental; price £350 or valuation of stock and fixtures.

7.—£550.—**LONDON, S.E.**—Old-established Family Business; average £550 yearly; easily worked; *profits good*; house contains 7 rooms; large garden attached; moderate rental, on lease; price £480.

8.—£1,100.—**SURREY (within easy distance of Town).**—First-class Dispensing and Family Retail Business; returns last year nearly £1,100; *net profit* £500 (proof given); attractive shop, well-fitted and stocked; commodious residence, held on long lease; price £1,050.

9.—£800.—**MIDLANDS.**—Dispensing and General Retail, all light business; returns £800, *profit* £300; prices charged are medium; several good proprietaries, selling well; well-fitted shop; rent £21 yearly; price £450.

10.—£700.—**ESSEX (Market Place).**—Modern Pharmacy, well-established concern; returns £700; *net profit* about £250; attractive shop, well-fitted and stocked; good residence, held on lease; price about £550.

11.—£1,250.—**HOME COUNTY (Main Line of Rail).**—Good-class Business, well situate in good business thoroughfare; returns, present rate, £1,250 per annum; handsomely-fitted shop and large stock; price, small premium and valuation of stock and fixtures.

12.—£525.—**WALES.**—Vendor retiring from business; old-established concern; returns nearly £525; *very large profits*; well-fitted shop, suitable stock; convenient residence, rent small; price £300, or valuation.

13.—£1,500.—**KENT (Health Resort).**—Good-class Business, well situate in the centre of town; returns £1,500; *net profit* exceeds £550; nicely fitted shop, and good stock; price about £1,400.

14.—£2,000.—**SURREY.**—First-class Dispensing and Retail Business situate in busy thoroughfare; returns present rate £2,000; can be largely increased by personal attention; price, small premium and valuation of stock and fixtures.

Particulars of any of the above will be furnished on application.

**N.B.—NO CHARGE TO PURCHASERS.**

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION. Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the special attention of a London Agent.

**SPECIAL NOTICE.**—Messrs. ORRIDGE & CO. have a large number of Businesses for Sale suitable for Gentlemen with small capital, from £200 to £500.

**ORRIDGE & CO., 32 LUDGATE HILL LONDON, E.C.**



# F. J. BRETT

VALUER,

37 Waterloo Street, LEICESTER.

References to Principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.

## BUSINESSES THOROUGHLY INVESTIGATED.

**VALUATIONS.**—The long and varied experience of F. J. BRETT in Valuing all classes of Businesses throughout the United Kingdom, together with his ever-increasing connection, renders it desirable that you should secure his services, in order to have your interests well protected. Stocks carefully taken.

£1,750 returns.—**NORTH MIDLANDS.**—Very old-established Light Agricultural Retail, fair Dispensing and Prescribing, in small market town; very little opposition; excellent residence; net profit £350; price £850.

£400 returns, Branch.—**MANCHESTER** (Busy City Thoroughfare).—Did £600 when personally attended to; energetic man would do well; price about £300.

£450 returns.—**STAFFS.**—Light Retail and Prescribing; price £150.

£750 returns.—**LANCS.**—Good old-established concern; easy distance of Manchester; vendor selling through ill-health; price £600.

£600 returns.—**LONDON, W.**—Dispensing and Light Retail; Branch; energetic man could vastly improve returns; price £250, or valuation.

£1,000 returns.—**LONDON.**—Good-class Retail, Prescribing, Dispensing, and own preparations; mostly cash; good house, lease; price £750.

£1,200 returns.—**DERBYSHIRE.**—General Retail, Prescribing, and own Specialities; profit quite up to the average; will bear full investigation; price about £1,000.

£420 returns.—**DEVON.**—Light Retail, in good-class town; large house, garden, conservatory, &c.; price £300.

£500 returns.—**NOTTINGHAM.**—Well-fitted Light Retail, Prescribing, and fair Dispensing; steadily increasing; valuation about £400.

£600 returns.—**WORCESTERSHIRE.**—Light Retail, Dispensing, and Prescribing; net profit £200; has never had personal attention; valuation £350.

## WANTED.

F. J. BRETT has numerous inquiries for Businesses of all sizes and classes, and can speedily sell your Business for you.

# BERDOE & CO.

CHEMISTS' TRANSFER AGENTS AND VALUERS,

35 JEWRY STREET, FENCHURCH STREET, E.C.

Established 1870.

**VALUATIONS** are in all cases conducted by a member of the firm, and the most careful attention to details, which is so essential, may be relied upon.

1.—**EASTERN COUNTY.**—First-class Retail, Dispensing, and Agricultural Business, returning nearly £4,000, with scope for considerable increase; cash required about £3,500; which is about the value of stock and fixtures; suitable for two friends.

2.—**YORKSHIRE.**—Good-class Retail, Dispensing, and Prescribing Business; returns over £2,000, and making a net profit of £450; excellent position; price £1,400, or by valuation.

3.—**DERBYSHIRE.**—Light Retail and Prescribing Business; returns £650, and increasing; low rent; good house; profitable trade; price £280, or valuation of stock and fixtures.

4.—**SOUTH COAST.**—Rising residential locality, near the sea; good-class Retail and Prescribing Business; returns £7 to £8 weekly under management; good house, bath-room; price £225.

5.—**EASTERN COUNTY.**—Unopposed Light Retail, Prescribing, and Dispensing Business; returns average £1,300; net profit £300; convenient house; low rent; price, simply valuation of stock and fixtures, about £500.

6.—**MIDLANDS.**—Family Retail, Dispensing, and Prescribing Business, with Wines and Spirits; returns average £1,400; net profit nearly £350; corner shop, well fitted and stocked; stock and fixtures worth £850; price £900, or a reasonable offer.

7.—**LONDON (Suburb).**—First-class Retail and Dispensing Business, well situated; a good-class residential locality; handsome shop, well fitted and stocked; very convenient house; net profit £500 yearly; every investigation allowed; price £1,050.

8.—**LONDON, S.W.**—Main road; good-class Retail, Dispensing, and Prescribing Business; same hands 10 years; shop is well fitted in mahogany and well stocked; returns last year over £700, and net profit nearly £300; price £600.

## BUSINESSES WANTED.

**MESSRS. BERDOE & CO.** have a number of clients wanting to purchase Businesses.

NO CHARGE TO PURCHASERS.

35 JEWRY ST., FENCHURCH ST., CITY.

# JUDD & MANNERS

CHEMISTS' VALUERS,

Transfer Agents, Partnership Negotiators,  
Arbitrators and Accountants,

76 CANNON STREET, LONDON, E.C.

**LONDON, S.E.**—First-class Retail, Dispensing, and Prescribing Business; handsome shop and large house; net profits over £500; price £1,100 satisfactory reasons for disposal.

**SOUTH COAST.**—First-class Dispensing and Prescribing Business, good central position; very nicely-fitted shop and good stock; large house returns nearly £900; held on long lease at a low rent; price £700.

**LONDON, S.E.**—Light Retail, Prescribing, and Dispensing Business nicely-fitted shop and good stock; returns £500, increasing weekly; net profits £180; large house and large garden; price £400, or offer; satisfactory reasons for selling.

**LONDON, E.**—Old-established ready-money Retail Business, at present under management; returns £12 weekly; long lease; 5-roomed house with cellar and yard, with shed for bottles.

**BIRMINGHAM.**—Good-class Dispensing and Retail Business (as established); handsomely-fitted and well-stocked shop; returns over £20 with first-rate profits; price £700; large and convenient house; satisfactory reasons for disposal.

**SOUTH COAST.**—First-class Dispensing and Prescribing Business; good house and premises; returns £500, ought to do double; price £400.

**LONDON, W.**—Old-established good-class Retail and Dispensing Business in first-class position; returns £10 weekly; good house a garden; valuation of stock and fixtures only.

**LONDON, WEST.**—First-class Retail, Prescribing, and Dispensing trade; handsomely-fitted corner shop in bold position; returns £1,150 price £1,000, or £100 goodwill and valuation.

**MIDLANDS.**—Good all-round Country trade; present hands nearly years; nicely-fitted shop and good house; returns £1,250, with good profit small premium for goodwill and valuation of stock and fixtures.

**YORKSHIRE.**—Family Retail Business; handsomely fitted shop a very convenient house; returns £14 weekly, and steadily increasing; price £300 or valuation; satisfactory reasons for selling.

**NORTHERN SEASIDE RESORT.**—Light Retail, Prescribing, and Dispensing Business in good corner position; returns £750, with good profits, and increasing monthly; price £550 or offer.

Particulars of either of the above free on application.

**VALUATIONS for Probate or Transfer by a fully qualified member of the Firm. Books Audited, Balance Sheet Prepared, and Chartered Accountants' Certificate given.**

# THOS. TOMLINSON & SON

Chemists' Transfer Agents and Valuers,

9 NEW CANNON STREET, MANCHESTER.

Valuations Conducted with careful attention to detail.

£750 returns.—**EAST LANCASHIRE.**—Returns easily doubled by up-to-date man; the fittings of shop are distinctly the best in the whole district; price, open to offer, about £350; worth buying if only to replace another shop elsewhere.

£676 returns.—**LINCOLNSHIRE.**—Price £250; Mixed Business with Cattle Proprietaries; good market trade; easily increased by personal attention which it has recently lacked; rent £26; a rare chance for young man to start with moderate capital.

£800 returns.—**LANCASHIRE TOWN.**—Genuine old-established, well-known General Retail Business; rent £30; price, valuation; Mineral Water Works (at option of purchaser).

£624 returns.—**SHEFFIELD.**—Formerly £900; price valuation; good house.

Particulars of other genuine Businesses in various localities, and of different sizes and classes, may be had upon application by bona-fide purchasers.

NO CHARGE TO PURCHASERS.

Telegraphic Address—"TOMTOM."

Telephone No. 3965, National.

## TO LET.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

**TO** be Let in the High Road, Leytonstone, a recently-erected shop; well placed between a fancy draper's and milliner; Chemist and Druggist wanted; no one in this business for a quarter mile either way. Apply J. A. & W. Tharp, 9 Norton Folgate, Bishopsgate Street, E.

## APPRENTICESHIPS.

**THETFORD.**—Apprentice wanted; indoors; passed Preliminary Examination preferred; comfortable home; small premium accepted. Apply, as to terms, &c., W. Hildyard, Chemist and Druggist, The Pharmacy, Thetford, Norfolk.

**G. L. DOUTHWAITE**, Chemist, Newport, Shropshire, has a vacancy for a gentlemanly youth as an Apprentice; indoors; or who has passed the Preliminary preferred.



## TO SUBSCRIBERS ABROAD.

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents, or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

## BUSINESSES FOR DISPOSAL

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

**BIRMINGHAM (near).**—Large busy country town; good Mixed Cash Business (Branch), Light Retail, Prescribing, &c., centrally situated; only wants personal attention to greatly increase the business (always been under managers); net profits last year about £200; will accept valuation of stock and fixtures (about £350); nothing for goodwill. Apply, "Proprietor" (10/22), Office of this Paper.

**BLACKPOOL.**—Branch Business; steady Light Retail; in central and thickly-populated neighbourhood; ample scope for rapid development under personal management; well worth attention; price about £350. Apply, Oliver L. Jackson, Church Street Pharmacy, Blackpool.

**CAMBRIDGESHIRE.**—Unopposed Business; returns £1,200; net profit £300; same hands 30 years, retiring; good house and premises; vendor will accept valuation without any goodwill; about £500 required, a thorough bargain. 11/24, Office of this Paper.

**LINCOLNSHIRE.**—Good Family Retail and Agricultural Business, with local Wholesale, situate in the market place of a good market town; returns for the last four years average £1,000 to £1,200 per annum; good residence and excellent business premises attached to the shop; rent exceptionally low; lawn, greenhouse, &c.; cash buyer only treated with; no agents need apply; valuation about £1,000. Apply, "Genuine," Loft-hous & Saltmer, Wholesale Druggists, Hull.

**LIVERPOOL.**—First-class Retail and Dispensing Chemist's, in leading thoroughfare; takings £900; principally own proprietary articles; very few patents; will sell property and business, or separately; present owner in indifferent health, hence disposal; splendid opportunity for business man. Apply, Geo. Lloyd, Accountant, Westminster Chambers, 3 Crosshall Street, Liverpool.

**LONDON (just outside the City).**—A unique and most valuable Retail Business for Sale, through death of the owner, who conducted same for 40 years; receipts for the last three years average £2,180 a year; net average about £840; very busy position; very low rent, £75, worth £140; lease 11 years; well fitted and stocked, and premises in excellent repair; price £2,000; any fair offer considered; part might remain; no credit and no book debts; every investigation courted from genuine purchaser. Write only to "Excentor," 8 Denver Road, Amherst Park, London, N.

**LONDON (Eastern Suburb).**—Exceptional offer; genuine Retail; returning £10 weekly, still increasing, with attention can be doubled; modern and attractive shop; stock in splendid condition; to bona fide applicants with necessary capital (£200), references and full investigation invited. Apply, 7/8, Office of this Paper.

**LONDON, W.**—A thoroughly good Retail and Dispensing Business, situated in busy West-end thoroughfare; old established; returns last year £1,323; net profit £350. Cash trade, very few Patents; good house, private entrance; price £1,000; the fullest investigation can be made; no agents. Apply, "Phenacaine" (9/8), Office of this Paper.

**MANCHESTER (near).**—Ready-money Retail and Prescribing Business in main thoroughfare of a fast-increasing locality; last year's receipts £562; practically no opposition, nearest qualified chemist two miles away; good opening for Dentistry; satisfactory reasons for selling; price £400. Apply, "Oaloric" (7/1), Office of this Paper.

**MIDLANDS.**—Steadily increasing Business in busy road of large manufacturing town; at present doing £14 weekly; well-fitted shop; good house, moderate rent; vendor taking larger concern, will sacrifice at valuation; about £350 required. "Acacia" (10/33), Office of this Paper.

**NORFOLK.**—Genuine old-established Business in market-town; good prices; first-class connection; well-stocked shop, with commodious dwelling-house; splendid position; proprietor retiring; price £450. Full details on application to Smith & Sons, Wholesale Druggists, Norwich.

**NOTTS (Dukeries).**—£360 returns; increasing; very good profits; densely-populated neighbourhood; proprietor leaving the trade, and must sell quickly; good 7-roomed house, private and back entrance; £160 or offer. Apply, 9/21, Office of this Paper.

**WORCESTERSHIRE.**—Profitable Light Retail Business; busy thoroughfare, centrally situated; noble, double-fronted shop, plate-glass windows; nicely-fitted shop; good house (recently papered throughout), private entrance, rent £35, lease; present returns, improving, almost £8 weekly; valuation, no goodwill, about £250; desirable investment; chance seldom met with. "Sapo" (10/25), Office of this Paper.

**WORCESTERSHIRE.**—Old-established Dispensing and Light Retail Business, in Country market town; heavily-stocked and well-fitted shop and warehouses, excellent house and garden; only changed hands once in 65 years; illness cause of sale; introduction given; returns about £950; price £900. "Spes" (4/39), Office of this Paper.

**YORKS.**—Village near large town in West Riding; returns last year over £300; rent low; good house attached; good opening for Dentistry; suit Store trade; no other Chemist in the village; price £175, which is about value of stock and fixtures. 9/2, Office of this Paper.

**ABOUT** £130 will buy a nice little Chemist's Business in Cardiff, as a going concern; growing neighbourhood; stock could be greatly reduced to meet purchaser with little capital. Apply, Heddwhch (7/19), Office of this Paper.

**ADVERTISER**, having a good-class Dispensing business, also a Retail and Prescribing Cash business, both thoroughly genuine and open to every investigation, must sell one of them; prices respectively about £550 and £275. Bona-fide purchasers (no agents) apply to "Loretin" (8/32), Office of this Paper.

**AN** excellent opportunity occurs for the purchase of a lucrative and old-established Retail and Dispensing Business; cash wanted about £1,000. Particulars of Mr. F. C. Squire, 5 Belledfields Road, Brixton. Principals only dealt with.

**CHEMIST'S** Business for Sale, with or without a long lease of the premises, at a ground rent; if only Business purchased a rack rent lease could be granted; price £400. Apply, R. S., 85 Haverstock Hill, N.W.

**DRUG-STORE** to be sold, proprietor giving up business; established 25 years; 6 miles from G.P.O.; good opening for qualified Chemist, nearest being quarter mile distant; price for stock and fixtures, if sold at once, £35. J. W., Willows, Francis, Butler & Thompson, 40 Aldersgate Street.

**FOR** Disposal, small Medicated-wine Business; wine highly recommended by the leading Medical journals. 260/37, Office of this Paper.

**FOR** Disposal, a good Retail and Family Business (50,000 inhabitants), in good working order, capable of large increase. Particulars (with references), 181/36, Office of this Paper.

**FOR** immediate Disposal, in the best position of a good Agricultural town, Light Retail and Prescribing Business; many valuable Proprietaries; established about a century; present hands 26 years; lease, low rent; no agents. F. B. Sellors, Chemist, Tewkesbury.

**GENUINE** Cash Retail Business for Disposal; returns (1896) £8,685, (1897) £9,488, (1898) £10,598; owner retiring; every investigation; useless replying to this advertisement unless references be given. 8/39, Office of this Paper.

**GENUINE** Business, capable of great extension; in unqualified hands; profitable Prescribing trade done; good reasons for disposal; open to offer, or will sell on easy terms to genuine buyer; price £125. 12/3, Office of this Paper.

**INCREASING** Light Retail, Dispensing, and Prescribing Business, in healthy town of about 40,000 inhabitants; corner shop, nicely fitted and well stocked; long lease at low rent; net profit over £200; valuation of stock and fixtures about £500; satisfactory reason for disposal; will bear investigation. "Viola" (9/31), Office of this Paper.

**PROFITABLE** Business; large town; rent £45; price £250. "Benefactor" (7/33), Office of this Paper.

**SPLENDID** opening for young Chemist, Herbal and General Drug Stores, on thickly-populated side of a thriving West Riding town; no qualified Chemist within about a quarter of a mile. Address, 9/24, Office of this Paper.

**WYATT & CO.**, Pharmaceutical Chemists, Lancaster, wish to dispose of their Branch Business at Stonewell, Lancaster, and will be pleased to furnish full particulars on application, or the same may be obtained from Messrs. Evans, Sons & Co., Liverpool.

## BUSINESSES WANTED.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

**ADVERTISER** desires situation, with view to early succession, in Business returning about £800; must be in North England, situated in good-class neighbourhood; replies treated confidentially; no agents. "North" (8/28), Office of this Paper.

**ADVERTISER** wishes to purchase a genuine Retail and Dispensing Business in London or in Wales; returns about £500 to £600; must bear a strict investigation. Apply, in confidence, to "Ffydd" (8/29), Office of this Paper.

**MESSRS. BERDOE & CO.**, Valuers, respectfully desire to inform gentlemen wishing to dispose of businesses that they have a number of clients wanting to purchase prepared with cash from £200 to £3,000; strictest confidence guaranteed. Terms on application, Messrs. Berdoe & Co., 35 Jewry Street, Fenchurch Street, E.O.

**WANTED** to Purchase a Business turning over £3,000 to £4,000 per annum, at good profits; handsome price given for good will; Principals only dealt with, no agents; strictest secrecy. "Zebra" 174/7, Office of this Paper.

**WANTED**, immediately, small genuine Chemist's Business (Country preferred), unopposed; must have good house attached, with low rental, and bear thorough investigation; price about £200; preference to one recently opened. "Chemist" (8/8), Office of this Paper.

**WANTED**, genuine Business in a good position, showing a net profit of £200; must be capable of increase, and have a good house at a moderate rental; or would Manage, with a view to succession; London, or within 50 miles of London. "Major" (8/31), Office of this Paper.



## FOR SALE.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

**STOCK** and Fixtures for immediate Disposal; rare chance for anyone opening a business; to be sold cheap; fixtures separately if desired; on view at Glossop. Write, Golden, Chemist, Levenshulme.

## SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

*The Publisher of "The Chemist and Druggist" wishes it to be understood that he is not in any way responsible in respect of Advertisements answers to which are to be sent to this Office.*

*Assistants applying for any of the Situations advertised below are recommended in no case to send Original Testimonials. If they send Photographs or any Documents which they wish to have returned, a Stamped Addressed Envelope should be enclosed.*

### RETAIL.

**ASHTON-UNDER-LYNE.**—Wanted, a newly-qualified Assistant; outdoors preferred; must be steady; state terms, age, and references. Apply, J. W. Arden, Chemist, George Street, Ashton-under-Lyne, near Manchester.

**BIRMINGHAM.**—Junior or Improver; February 20; General, Retail, Dispensing, Prescribing; gentlemanly, with good address; must be active and willing; time and assistance for study; outdoors; dinners and tea, Sundays excepted; one seeking permanency preferred. State age, height, references, salary required, enclose photo (to be returned), Walter Scott, 316 Wheeler Street, Birmingham.

**BRISTOL.**—Wanted, immediately, a Junior Assistant; indoors. State salary, reference, and usual particulars, with photo, John Evans, Temple Gate, Bristol.

**BRISTOL.**—Immediately, outdoors, qualified Assistant, not under 23; must be steady and businesslike; moderate hours, and no Sunday duty. State salary and references, and enclose photo (to be returned), E. Presley, 12 St. Augustine's Parade, Bristol.

**BRIGHTON.**—Assistant wanted immediately to Manage small branch; must be good counterman; abstainer preferred; indoors; weekly half-holiday. Please state experience, salary, references, and full particulars, H. M. Black, Pharmaceutical Chemist, 32 Marine Parade, Brighton.

**CARDIFF.**—Branch Manager wanted; live on premises; artisan trade; hours 8 till 9, Saturdays 11; close Wednesdays at 2; no Sunday duty; £1 15s. week; house free. Send photo and give particulars of last three situations, and number in family, X. (9/25), Office of this Paper.

**CARDIFF.**—Wanted, immediately, a gentleman as Junior; must be quick and intelligent. Anthony & Co., Chemists, Cardiff.

**CROYDON.**—Junior wanted immediately, about 22, indoors, for first-class cash business; must be a good Counterman. Apply, personally or by letter (enclosing photo), and stating particulars of experience, salary expected, &c., to Manager, Henry's Drug Stores, North End, Croydon.

**CROYDON.**—Manager wanted (Croydon); must be thoroughly experienced in first class cash business, including Photograph; rooms over, most suitable to a married man with a small family. Apply, giving fullest particulars (enclosing photo), to X., Messrs. Hodgkinson & Co., 101 Whitecross Street, E.C.

**EASTBOURNE.**—Wanted, an Assistant, accustomed to good-class Dispensing; indoors; two others kept. J. Senior, Compton Street, Eastbourne.

**EAST DULWICH.**—Wanted, energetic Manager, married, for small Retail and Prescribing business. Davies, Chemist, Thornton Heath, Surrey.

**ELY.**—Assistant, about 22, for good-class Country business (with Agricultural); excellent opportunity for Photographic trade experience; no Sunday or night duty; half-holiday; qualification not essential; indoors; photo if possible (which will be returned) and particulars to J. A. Gardiner, Chemist, Ely, Cambs.

**FAVERSHAM.**—A reliable, gentlemanly Assistant, indoors, who has been accustomed to a good-class Country business. Apply, stating age, height, experience, and salary required, to M. Laxon, 14 Market Place, Faversham.

**HEADINGLEY, LEEDS.**—Wanted, at once, good Junior Assistant. Apply, giving full particulars as to age, experience, references, and salary required, to E. O. Brown, Beech Bank Pharmacy, Headingley, Leeds. Telephone No. 192. Send photo if convenient.

**ILFORD, E.**—Wanted, a Junior about 23; indoors; must be of good appearance; liberal salary to a suitable man; three kept. Usual particulars, with height and photo, if possible, to Newton Wright, The Pharmacy, Ilford.

**KIDDERMINSTER.**—Wanted, a good Junior, about 21, indoors in a good-class Country business, where Senior is kept. State experience, salary required, and reference to Morgan & Lawley, Kidderminster.

**KINGSTON-ON-THAMES.**—Wanted, Junior Assistant. State age, experience, when disengaged, and salary required, E. Why, Kingston-on-Thames.

**LEICESTER.**—Wanted, an Assistant; outdoors. State age, salary, and references to S. Cleaver, Chemist, Wharf Street, Leicester.

**LIVERPOOL.**—Wanted, a Junior or Improver for a good-class Retail and Dispensing business; aged about 20; indoors; time for study and attending evening classes if desired. State salary required, enclosing photo, or apply personally to Glendinning's, 35 Granby Street, Liverpool.

**LONDON, N.W.**—Improver or Junior in Dispensing business. Apply, with full particulars, to H. W. Roberts, 204 Haverstock Hill, Hampstead, N.W.

**LONDON.**—Junior Assistant (outdoors) for a few weeks. Please apply, personally or by letter, to "Chemist," 48 Lower Clapton Road, Hackney, N.E.

**LONDON, S.W.**—Smart Junior required, immediately; indoors; must be a quick and reliable Dispenser. Dyer, Pharmaceutical Chemist, 89 Acre Lane, Brixton, S.W.

**LONDON, S.W.**—Part-time Student wanted; comfortable home. Apply, 5 Pimlico Road, S.W.

**LONDON, S.W.**—Assistant wanted, at once (indoors), tall, and gentlemanly manner, accustomed to good-class business; age 22 to 24. Apply, E. Glaisyer, Pharmaceutical Chemist, 53 King's Road, Sloane Square, S.W.

**LONDON.**—Assistant, outdoors (about 24), at once; duties, to put a stock and assist at counter; must be active and neat; permanent salary, 30s. week and commission. Full particulars to "Statim" (7/11), Office of this Paper.

**LONDON, E.**—Wanted, a qualified Chemist for an East-end Retail business; progressive salary and commission; live indoors; comfortable home. Apply, between 10 and 11.30 A.M. and 2 to 3 P.M., 100 Commercial Road, E.

**LONDON, E.**—Qualified Manager for an East-end business; terms, £80 per annum (indoors) and commission; applicants will kindly give particulars as to age, experience, and references. Replies to be addressed to O. R., c/o Duncan, Flockhart & Co., 38 and 39 Snow Hill, E.

**LONDON, N.**—Wanted, at once, Improver; outdoors. State age, salary required, and usual particulars, H. Baker, 161 Seven Sisters Road, Holloway, N.

**LONDON, N.W.**—Assistant, with good-class experience, for Dispensing and Light Retail; time for reading; with Minor qualification preferred; permanency. Parker & Co., Pharmacists, 1 King's College Road, Adelaide Road, South Hampstead, N.W.

**LONDON, S.E.**—Junior or Improver; outdoors; close on Thursdays at 5; also, about March 1st, qualified Assistant; indoors. Apply Hooper, 59 High Street, Peckham, S.E.

**LONDON, S.E.**—Wanted, at once, a qualified Assistant; must be good Dispenser; personal application preferred. Cadman & Co., Chemists, Blackheath, S.E.

**LONDON, N.**—At once, a Junior Assistant, good at counter; indoors; early evening weekly; half-holiday fortnightly; time of daily; Sunday duty every fourth Sunday. Please address full particulars to "Chemist," 675 Holloway Road, Upper Holloway, N.

**LONDON, W.**—Wanted, by the 20th inst., an indoor Assistant, qualified or otherwise, about 24 years of age; must be well up in Dispensing. Apply personally, or enclose photo, with particulars of age, height, experience, and salary, to C. Davies, 194 Holland Park Avenue, London, W.

**LONDON, S.E.**—Smart Junior wanted at once, chiefly Dispensing; outdoors; no Sunday duty. Apply, "Energy" (10/21), Office of this Paper.

**LONDON, N.W.**—Qualified Assistant wanted for Dispensing business. If writing, please send photo and full particulars, P. Davidson, Pharmaceutical Chemist, 342 High Road, Brondesbury, N.W.

**LONDON, S.E.**—Immediate, young qualified Assistant, used to quick Cash trade; must be smart and reliable, good appearance; salary and commission; one full day a week off, no Sunday duty. Manns, 45 By Lane, Peckham.

**LONDON, S.E.**—Junior (indoors), for Retail and Photographic business; must have good references. Apply, with full particulars and regards salary required, references, &c. (personal application preferred), to C. Bunker, 135 Great Dover Street, S.E.

**LONDON, S.E.**—Wanted, at once, Improver or Junior, about 19 or 20, for Light Retail business. Please give usual particulars to W. L. Callam, 194 Crystal Palace Road, East Dulwich.

**LONDON, W.**—Wanted at once, Qualified Assistant, age about 25, also good Junior. Apply, with full particulars, to Jones & Bowles, 221 High Street, Kensington.

**MANCHESTER.**—Wanted, Improver in Mixed Retail and Dispensing business, or part-time Assistant might be arranged with Full particulars to Taylor, Chemist, 20 Great Clowes Street, Lower Broughton.



**MIDLANDS**.—Wanted, unqualified Assistant (outdoor) for Mixed Country business, thoroughly reliable, good window-dresser and Counterman, used to Store trade, to work up business under Principal. Apply, stating age, experience, references, when disengaged, and salary required, "Vers" (10/15), Office of this Paper.

**NORWICH**.—Wanted, at once, a qualified Assistant (indoors); salary and commission on returns; permanency. Apply, De Carle & Son, Norwich.

**ROTHERHAM**.—Wanted, a reliable Assistant, qualified, for pushing Retail business: must be a good Counterman. Apply, stating age, &c., J. Birch & Co. (Limited), Rotherham.

**RUSHDEN**.—Trustworthy Junior at once; indoors; good-class Retail; weekly half-holiday; no Sunday duty; abstinence preferred. Give full particulars, salary required, &c., to C. Smith, Chemist, Rushden, R.S.O., Northamptonshire.

**SCARBOROUGH**.—Wanted, a steady, reliable Assistant; outdoors. State age, salary, and references, and enclose photo, &c., Coverdale, Chemist, Scarborough.

**SITTINGBOURNE**.—Junior, in good-class Country Retail; comfortable home; short hours. J. E. French, Chemist, Sittingbourne.

**SPALDING**.—Donnington & Co., Chemists, Market Place, Spalding, require at once an Assistant and also a Junior, who have had good Provincial experience. Apply, giving age, height, and references, and enclose photo (which will be returned).

**TORQUAY**.—At once, competent Assistant, not under 24; must be smart Salesman and with good address; Photographic knowledge desirable; easy hours; comfortable home; particulars should include age, height, photo, and details of previous experience. March, Fleet Street, Torquay.

**WESTON-SUPER-MARE**.—Wanted, for end of February, a Junior Assistant, about 21; indoors; must be of gentlemanly appearance and address, and accustomed to first-class Dispensing and Retail business. Apply, stating age, height, and salary required, &c., and enclosing photo, to Edwin Norman, Pharmacist, 35 High Street, Weston-super-Mare.

**WOLVERHAMPTON**.—Assistant, as Dispenser (indoors), accustomed to Country trade; abstainer; good references required. Apply, with full particulars, to "Pharmacist," 11 Queen Square, Wolverhampton.

**YORK**.—Wanted, an energetic, qualified Assistant, to develop a Cash business in a main thoroughfare; knowledge of Photography essential; outdoors. Apply, with full particulars, to G. Coverdale, Chemist, York.

**AN** Assistant, about 23 years of age; two kept; qualification not necessary; must be good, quick dispenser; services required at end of February. Please state reference, salary (indoor), and usual particulars, photo (which shall be returned) if convenient, 10/18, Office of this Paper.

**COMPETENT** Manager for high-class Store Pharmacy; good salary and commission. Apply, A. B., c/o Sanger & Son, Winsley Street, Oxford Street, W.

**DISPENSER** wanted; Friendly Society's Dispensary; salary £70; out; time for study. Applications to W. Bavin, secretary, Arboretum Avenue, Lincoln, with references and testimonials.

**FOR** March 1.—Qualified Assistant; Junior; accustomed to high-class trade; good handwriting essential; indoors. Details of experience, &c., with photo, to Giles, Schacht & Co., Clifton Bristol.

**IMPROVER** wanted, or Youth who has been a short time in the business and not finished his apprenticeship. Apply, with full particulars, to 10/37, Office of this Paper.

**LEWIS & BURROWS (LIMITED)** have vacancies for smart qualified and unqualified Assistants; personal application preferred, if by letter enclose photograph. State salary required (outdoors) to 22 and 24 Great Portland Street, W.

**PARKE'S DRUG STORES, LIM.**, have Vacancies for a Branch Manager, smart Counterman, and Junior. Apply personally or by letter with photo, to 151 High Street, Kensington, W.

**WANTED**, Junior Assistant or Improver; comfortable home; close 2 o'clock Wednesdays; no Sunday duty; country. "Kent" (10/23), Office of this Paper.

**WANTED**, immediately, smart qualified Assistant, to manage Branch; half-day holiday weekly. Apply, stating age, height, experience, salary required (indoors), with photo and references, to F. Moss, Kingswood, Bristol.

**WANTED**, early in March, qualified Assistant, indoors about 24, for Retail and Dispensing business in Country town. State age, height, salary required, and references, enclosing photo (to be returned), A. K., c/o Messrs. Wright, Layman & Umney, 50 Southwark Street, London, S.E.

#### DISPENSERS IN ROYAL NAVAL HOSPITALS.

**REQUIRED**, immediately, two Dispensers holding the Major or Minor qualifications of the Pharmaceutical Society, or the Certificate of Qualification required by Sec. 1 Pharmacy Act (Ireland), 1875 for temporary service in naval hospitals at home; age not under 20 nor over 25. For further particulars apply to The Director General of the Medical Department of the Navy, Craven House, Northumberland Avenue, W.C.

**WANTED**, Assistant (indoors), for quick Cash Retail, Dispensing, and Photography. State usual particulars, and enclose photo, to Phillips & Son, Pharmaceutical Chemists, Newport, Mon.

**WANTED**, a smart and energetic Assistant, not necessarily qualified, who has had some experience in calling upon medical men; duties would be to solicit orders and keep books; address, stating age, experience, and salary required; if convenient enclose photo; applications not replied to in four days may be considered declined. 10/34, Office of this Paper.

#### WHOLESALE.

**ASSISTANT-CHEMIST** wanted in Laboratory in Dublin; must have had experience in Manufacture and Analysis of Pharmacopoeia Preparations. Apply, 3/39, Office of this Paper.

**BOTTLE-WASHER**.—Wanted, a smart man as Bottle-washer and Drug Porter; previous experience essential. Write, stating age, experience, and wages required, to C. P. T., 175 Grange Road, Bermondsey, London.

**CLERK** wanted for the Wholesale, with knowledge of Drug trade. Apply, H., 64 Park Street, Southwark, S.E.

**COLLAPSIBLE** Tube Fillers.—Wanted, Manager for Wholesale Factory; practical knowledge indispensable. State salary required and particulars to X. Y. Z., 56 Bishopsgate Street Within, E.C.

**GENTLEMEN** with connection amongst Wholesale Druggists, Dry-salters, and Shippers, may add to their income by taking up an extra commission for goods supplied regularly to the largest houses in London; large provincial towns not touched yet. Address, "Naphthaline," c/o Holden & Edwards, Printers, Church Row, Aldgate, London.

**JUNIOR** Traveller.—Wanted, a gentleman having knowledge of the Trade and some experience as a Traveller, to represent Mixed business in Druggists' Sundries over the country districts around Manchester; permanent position and established connection given to a suitable man. Applicants, send full particulars of experience, salary desired, and photo (returnable), to 10/26, Office of this Paper.

**LABORATORY**.—Two or three intelligent young men required who have had experience in a Wholesale Laboratory where Chemicals as well as Drugs have been handled. Please state age, experience, and wages expected to "Wholesale," c/o T. Dixon's Advertising Offices, 195 Oxford Street, W.

**LADY** Pharmacist, qualified, to superintend in the Packing department, handling of preparations containing poisons. Applicants will please state age, experience, and salary required to "Poison," c/o Messrs. Street & Co., 30 Cornhill, E.C.

**MANUFACTURING** Chemist requires the services of a well-trained Chemical Assistant; preference will be given to a candidate who has had some Manufacturing experience, especially if it comprises any practical acquaintance with Alkaloids and their extraction. Apply, with full particulars as to training, age, experience, and salary required, to "Iodine," c/o T. Dixon's Advertising Offices, 195 Oxford Street, W.

**REPRESENTATIVES** wanted by leading Soap firm for town and country; must be of good appearance and smart up-to-date Salesman; liberal terms. Address, in first instance, "Toilet Soap," c/o Gould's Advertising Offices, 54 New Oxford Street, W.C.

**REQUIRED** by a London Drug house, a competent man for Pill-room; must thoroughly understand Pill-making; Prescriptions and Pill-coating in all its branches. 11/28, c/o Office of this Paper.

**REQUIRED** by a London Drug house a man experienced in Pill-making and Coating, and competent to act as foreman of the department. Apply, Z. (181/26), Office of this Paper.

**SALESMAN** wanted, to take charge showroom; glass bottles. State experience, and salary asked, to 180/66, Office of this Paper.

**TRAVELLER** wanted; town and suburbs; must be used to calling on Chemists and Druggists; if acquainted with glass bottle trade preferred. Apply, with full particulars, salary, commission, and expenses, to Manufacturer, 180/67, Office of this Paper.

**TRAVELLER** wanted for Midlands and North Counties, with good connection, for Druggists' Sundries; one with energy will find this a good opening. Apply, with full particulars, to "Velox" (182/22), Office of this Paper.

**WANTED**, a Porter, age about 23; must have had experience in the trade. Apply to Barron, Harveys & Co., Wholesale Druggists, 6 Giltspur Street, E.C.

**WANTED**, Chief Chemist and Manager of Works, by a leading London firm of Manufacturing Chemists, employing several hundred people. The qualifications necessary for the position are high and well-grounded scientific knowledge and attainments; good practical experience in carrying out Manufacturing Processes; exceptional powers of organisation and administration, tact, good judgment; capability to direct and control scientific workers engaged in the manufacture of Fine Medicinal Chemicals and Pharmaceutical Products; a gentleman with University training and degrees preferred; the position commands a liberal salary; replies will be treated in the strictest confidence, if so desired. Address, stating age, qualifications, and experience, to "Manager," c/o Messrs. Markby, Stewart & Co., 57 Coleman Street, London.

**WHOLESALE** Drug Trade.—Required, by a firm in the provinces, a Junior Invoice Clerk. Address, stating salary, age, and experience, A.Z. (6/35), Office of this Paper.



# SITUATIONS WANTED

1s. for 12 words or less; 6d. for every 6 words beyond.

## RETAIL.

**JUNIOR**; 20; Liverpool or district. Taylor, 35 Granby Street, Liverpool.

**JUNIOR**; 20; disengaged; London preferred. E. E. E., 12 The Mall, Baling, W.

**JUNIOR** in good house. Apply, H. O. Stewart, 389 High Street, Cheltenham.

**MAJOR** desires situation in Laboratory. Walsh, 46 London Road, Blackburn.

**PART-TIME**, or full time; short hours. H., c/o Williams, 91 Hoxton Street, London.

**AS** Branch Manager; qualified; experienced. Roberts, 50 Tunis Road, Shepherd's Bush.

**JUNIOR**; 20½; outdoors; Manchester preferred. Robinson, c/o Wilson, Stowmarket.

**ASSISTANT**; 22; 5 ft. 6 in.; disengaged March 2. "Eosine" (11/19), Office of this Paper.

**QUALIFIED**; 30; married; Branch Manager or Assistant. 10/7, Office of this Paper.

**BRANCH** Manager or Assistant; 26; unqualified; references. B., 22 Society Place, Derby.

**EVENINGS**, after 6; good references and experiences. "Assistant," 26 Montpelier Row, S.W.

**QUALIFIED**; disengaged; 25; town and West-end experience. 33 High Street, Buxton.

**LONDON** or Liverpool.—As Junior; in or out; evenings for study. 12/2, Office of this Paper.

**MANAGER** or Senior; major; 34; height 5 ft. 11 in. "Beta" (7/38), Office of this Paper.

**QUALIFIED**; good provincial business; good references. Williams, 8 Grove Road, Brixton, S.W.

**QUALIFIED**; 25; 6 ft.; London or suburbs preferred; outdoors. S., Dudley House, Grantham.

**MANAGER** or Assistant; qualified; 34; 4½ years' reference. Weaving, Fyfield Wick, Abingdon.

**UNQUALIFIED**; 8 years' good experience; Birmingham or district. N., 42 Prospect Hill, Redditch.

**QUALIFIED**; City or West-end preferred; 6 years' references; tall; abstainer. Davies, Braintree.

**PART-TIME**, within fifty miles; classes; tall; London references. Kirkland, Kexby, Gainsborough.

**QUALIFIED** Dispenser seeks engagement; Doctor or Institution. Graves, 14 Obichester Road, London.

**QUALIFIED**; 25; West-end and Provincial experience. Apply, H. J. (9/23), Office of this Paper.

**ASSISTANT** (23), qualified; in good-class business; London preferred. "Radix" (7/35), Office of this Paper.

**JUNIOR** (London); 5 years' London and country experience; good references. Keen, West Rock, Warwick.

**MANAGER**, small business, or Dispenser; qualified; 43; varied experience. 10/13, Office of this Paper.

**DISPENSER**; unqualified; quick; accurate; highest references. "Chemists," 26 Norfolk Street, Cambridge.

**ASSISTANT**; unqualified; age 23; abstainer; good references; outdoors. Field, Wood Green, Witney, Oxon.

**JUNIOR**; 24; good experience; smart, obliging; Birmingham. 199 St. Vincent Street, Ladywood, Birmingham.

**UNQUALIFIED**; 36; 18 years' experience; married; provinces. "Permanency" (9/18), Office of this Paper.

**QUALIFIED**; first-class experience; good references; tall; abstainer. "Acetone," 3 Albion Buildings, Sunderland.

**ASSISTANT** (unqualified); 23; height 5 ft. 5 in.; disengaged. P. Andrews, Brant Broughton, Newark, Notts.

**QUALIFIED** Chemist (38) wishes a permanency as Traveller. "Radix," 44 Waldegrave Road, Hornsey, N.

**MANAGER** (experienced) or Assistant; tall; good references; engaged shortly. "Thiol," 62 Long Lane, E.O.

**JUNIOR**; 4½ years' experience; height 5 ft. 9 in.; London, W., preferred. Skerrett, 26 Silver Street, Wellingbore.

**QUALIFIED**; 23; tall; disengaged; good experience. State particulars, Northey Tenant, Wadebridge Cornwall.

**PART-TIME**; qualified; disengaged few evenings weekly Sundays; permanency. 8/33, Office of this Paper.

**MANAGER**; 20 years' good experience; active, energetic; qualified; married. "Chemist," 194 Queen's Road, Hastings.

**MANAGER** or Assistant; qualified; married; 32; good experience. James Nairn, Glebe Street, Bellshill, near Glasgow.

**DISPENSER** (Lady); Apothecaries' Hall certificate; S.F. district preferred. M. F., 6 Martell Road, West Dulwich, S.E.

**LADY** Dispenser, qualified, seeks engagement; hospital and private experience; good references. 5/14, c/o Office of this Paper.

**MINOR** Student (22) requires evening employment, Counter Dispensing. Jones, 111 Devonshire Road, Holloway, N.

**WANTED**, a situation as Improver in good business; aged height 5 ft. 7 in. Owen, Preswylfa, Bala, North Wales.

**DISENGAGED**; unqualified; 24; over 7 years' varied; preferred one or more kept or out. "Trust," 230 Albany Road, S.E.

**ASSISTANT** or Manager; height 5 ft. 8 in.; aged 39; qualified. "Pharmacist," 156 Delamere Street, Over, Winsford, Cheshire.

**DISPENSER**, 7 years' experience, wishes re-engagement, London whole or part time. "Rhubarb" (12/16), Office of this Paper.

**EVENING** Engagement; qualified; 26; first-class London experience; good references. "Student," Allchin, England Lane, N.W.

**LOCUM**.—Young smart qualified man seeks a day engagement occasionally; Photography; London. 10/24, Office of this Paper.

**ASSISTANT**; 24; 8 years' Scotch experience; height 6 ft.; London references; Stores preferred; outdoor. 12/17, Office of this Paper.

**IMMEDIATELY**, Manager; qualified; 5 ft. 10 in.; good address; first-class experience; aged 34. "Chemist" (8/7), Office of this Paper.

**AS** Manager, with or without view to succession; good country experience; near London preferred. "Major" (8/31), Office of this Paper.

**ASSISTANT**; 26; 5 ft. 8½ in.; experienced; good references; London preferred; disengaged. "Formalin," 9 Tichborne Street, H. Park, W.

**MANAGER** or Locum; 25 years' experience; disengaged; first-class references; S.W. preferred. George Marden, Floral House, Chertsey.

**ASSISTANT** or Branch Manager; 34; unqualified; single; good town; country experience. Geo. Reed, Victoria Road, E. Yorkshire.

**UNQUALIFIED**; 23; 5 ft. 9 in.; London experience; excellent references; London preferred. "Statim," 105 Nelson Road, Great Yarmouth.

**PART-TIME**.—In a respectable business; central, with facilities study; or with Doctor; qualified; good references. 8/34, Office of this Paper.

**AS** Manager; temporary or permanent; experienced in Selling and Preparing Business for Sale. "Pharm. Chemist" (8/30), Office of this Paper.

**MANAGER** of good business; North or Midlands; Major; 32; married; abstainer; unexceptionable references. 9/20, Office of this Paper.

**IMMEDIATE**, outdoors, thoroughly experienced Assistant; 36; abstainer; not Dispensing; unqualified. "Willing," 72 High Street, Aylesbury.

**MANAGER** (Branch or otherwise); qualified; good all-round experience; nominal salary; light duties. "Minor," 10 Clarence Place, Docks, Cardiff.

**LOCUM** or Manager, M.P.S.; disengaged; South Coast preferred; good all-round long experience. "Chemist," c/o Mr. Valler, Gas Street, Brighton.

**BRANCH** Manager; experienced; qualified; a permanency desired or temporary till suited; disengaged. J. M., 5 Lewes Road, Brighton, Sussex.

**SENIOR** Assistant; qualified; with view to Partnership or succession; good-class business; Yorkshire preferred. "Antipyrine" (5/2), Office of this Paper.

**AS** Assistant, with view to purchase, in a good-class Dispensing and Retail Family Business; replies treated confidentially. E. (8/1), Office of this Paper.

**ASSISTANT**; qualified; accurate Dispenser; 7 years' good experience; highest references; outdoors preferred. Groves, Lawren Road, Stapleford, Notts.



**QUALIFIED** Assistant wishes situation in London or District; well up in Dispensing and General work. Apply, R.S. Ramsay, 342 High Road, Brondesbury, N.W.

**MANAGER**, Assistant; 26; London and country experience; outdoors preferably; best references. "Statim," Albion Villa, South Furzeham Road, Brixham.

**MANAGER** of Branch; Dispenser and Bookkeeper to Surgeon or Locum; qualified; experienced; good references; disengaged. Martin, 71 College Place, London, N.W.

**MANAGER** or Assistant, Dentist or Chemist, or combined qualified; many years' London and Provincial experience; married; references, &c. X. (8/13), Office of this Paper.

**CHEMIST** or Surgeon; Counter, Dispenser; Hospital experience; Surgical Dentistry; own outfit; Prescriber; Ambulance. "Suture," Redleaf, Sandhurst Park, Tunbridge Wells.

**ASSISTANT**; unqualified; married; outdoors; permanency; 11 years' experience country Retail, Dispensing, &c.; abstainer; good references. "Spero," 40 Clayton Street, Grimsby.

**MANAGE** Branch; six years' London experience; undeniable references; Dentistry, Photography, Optics; abstainer; country preferred. Ritchie, 113 Burdett Road, London.

**WANTED**, at once, non-resident Managership, or would establish good Branch for capitalist on site to be indicated, S.W.; much experience. X., 77 Louisville Road, Tooting, S.W.

**ASSISTANT**; 10 years' experience; accustomed to first-class Retail and Dispensing; well up all round; aged 24; 5 ft. 9 in.; outdoors preferred; excellent references. 7/3, Office of this Paper.

**MANAGER**; good varied experience; 28; 5 ft. 10 in.; at present engaged as Senior in good-class Dispensing and Store business. "Eucalyptus," 13 Victoria Gardens, Notting Hill Gate, W.

**BRANCH-MANAGER** or Traveller; 24; 5 ft. 10 in.; 9 years' good mixed experience; 3½ years present situation; unqualified; married. "Assistant," 24 Watson Street, Stretford, Manchester.

**LOCUM**; 36; 20 years' town experience, Dispensing, Retail, Prescribing, Extracting, Manufacture, Stock; best credentials and references; moderate terms; day or week. "Competent," 32 Lion Street, Walworth, S.E.

**JUNIOR**, aged 21, height 5 ft. 9 in., 5 years' experience, good references, requires situation; Wholesale or Retail; Manchester or district preferred; disengaged. Address, G. R., 3 Mildred Street, Lower Broughton, Manchester.

## WHOLESALE

**A** Clerk or any rising position; London or Provinces; Office or Warehouse; considerable experience. 11 40, Office of this Paper.

**A** Junior Traveller, Collector; several years' experience. Ashwin, 49 Boltart Road, Liverpool.

**TOWN** Traveller to good Drug or Sundry house; disengaged. "Constant," 84½ Gloucester Road, S.W.

**A** S Wet or Dry Counterman, or in the Office; 21; satisfactory references. 9/37, Office of this Paper.

**TRAVELLER**: qualified Chemist; Northern counties preferred; excellent references. 5/16, Office of this Paper.

**EXPERIENCED** Chemist seeks position in a good firm of Manufacturers; excellent references, &c. 276/21, Office of this Paper.

**SITUATION** in Wholesale House; 6 years' London Retail experience; knowledge of Tablet making. Middleton, 30 Broadway, Crouch End, N.

**SITUATION** with London Wholesale firm; Laboratory or Wet counter hand; small salary; retail experience. "Progress," 15 Methley Street, Kennington, S.E.

**TRAVELLER**: qualified Chemist; first-class connection among Chemists and Doctors in the six Northern Counties; highest references. 11/15, Office of this Paper.

**A** S Analyst's Assistant, in public or private Laboratory; a year with Public Analyst; highest references; member of Pharmaceutical Society. "Analyst" (12/5), Office of this Paper.

**WHOLESALE**.—Young man as Clerk in Wholesale Druggist's or Sundries house; 4 years' experience, Retail trade; 2 years in Government office. "Tarax" (9/15), Office of this Paper.

**DRUGGISTS'** Sundries.—Pharmaceutical Chemist is open to Represent a first-class house on commission; Belfast and North of Ireland. Apply, "Capable Resident" (10/38), Office of this Paper.

**WHOLESALE**.—Young man, energetic, requires situation as Dry or Wet Counterman; 8 years' Wholesale experience; good parcel maker. "Druggist," 62 Mountgate Street, Norwich.

**A** QUALIFIED Chemist of great experience, well known to Medical Men, Veterinary Surgeons, and Chemists in the West of England, desires to represent a good house. 8/15, Office of this Paper.

**ADVERTISER**, aged 19, seeks engagement in the Office or Laboratory of a London Wholesale Chemist or Manufacturer; 3½ years' practical Retail experience. Hind, Lansdowne Road, Tottenham.

**TRAVELLER**, Country; has represented for last 13 years high class London firm in Perfumery and Fancy Soaps, covering greater part of United Kingdom. M. R., c/o Leonard Courtney, 185½ Aldersgate Street, City, E.O.

**REPRESENTATIVE** of leading firm of Wholesale Druggists is open to treat with first-class house; established connection of many years amongst Medical Men and Chemists; highest references. 12/14, Office of this Paper.

**TRAVELLING** Representative, disengaged shortly, wishes to represent first-class London or Provincial firm of Manufacturing Chemists; well received by Doctors and Chemists. Apply, stating terms, "Scalpel" (12/15), Office of this Paper.

## MISCELLANEOUS.

*Special charges are made for Advertisements under this heading, which can be obtained on application.*

### STUDENTS AND VISITORS TO LONDON

**WILL** find a first-class moderate Hotel; bed and breakfast from 3s.; tariff on application. Address, Mrs. Privett, 68, 83, and 85, Southampton Row, Bloomsbury Square.

**DAISY (LIMITED)**, Leeds, offer £5 for the best Daisy window. For particulars drop a Post Card.

**CRÈME TERAS ROSA** is the best of all modern preparations; highly recommended for the Hygiene and beauty of the skin. This Cream, used at the Court of the German Emperor, is now on sale in England. For wholesale prices, inquire of Brunot & Grohmann, Central Depot, 160 Brompton Road, London, S.W.

**500 SAMPLES** of Sulphoids, with name and address on, free to any Chemist; nearly 20,000 being sent out weekly; don't miss the opportunity; Sulphoids show over 70% profit; minimum retail 1s.; advertisements inserted in time-tables, price-lists, &c., &c. Write, Christie, Baker & Co., 53 and 54 Paternoster Row, London.

**COMPLETE** Fittings for Chemist's shop; 12 ft. run of drug drawers, glass labels and glass knobs, shelving, cornice, and lockers; 8 ft. mahogany and glass wall-case; 12 ft. mahogany and plate-glass counter; 6 ft. dispensing-screen, mirror-centre, with counter and sponge-case under; perfume case and desk; bent plate-glass counter case with display and serving-shelves; £15 the lot; in first-class condition and ready for immediate despatch. Philip Josephs & Son, 54 Old Street, London, E.O.

**CHEMISTS'** Shop fixtures.—Ranges mahogany drawers, with bevelled edge glass labels and out-glass knobs, shelving above, lockers below; mahogany dispensing-screens; counters with glass-plate fronts; wall-cases; bent-front and flat-top counter-cases; counter-desks; tooth-brush cases; complete shop-rounds, &c.; every requisite for Chemists, new and second-hand; extensive stock to select from, at extremely low prices; practical men sent to all parts; estimates free. Matthews, Chemists' Fitter, 14 Manchester Street, Liverpool; Works: 9 Preston Street. Telephone 6696.

**CHEMIST'S** 12 ft. range of 60 mahogany-fronted drawers, bevelled-glass labels, out-glass knobs, pillars, shelves, mahogany cornice above, lockers below, complete, high-class fitting, £13; 6 ft. dispensing-screen, mirror centre, mahogany-top counter and plate-glass sponge-case under, complete, £13 10s.; 6 ft. bent plate-glass counter-case, solid mahogany display-shelves, velvet-lined trays, 97s. 6d.; 4 ft. nest of 13 under counter drawers, some divided for labels, 43s. Cheap house for window-enclosures, alterations, incised fascias, wood letters; chemists fitted complete; estimates free. Mills, Shop-fitter and Shop-front Builder, Steam Works, 163-5 Old Street, London, E.O. (late 203 City Road, E.O.).

### ROUSE'S DICTIONARY OF SYNONYMS,

**FOR** the Use of Chemists, their Assistants, and Apprentices. Contains between 4,000 and 5,000 references. The most complete work of its kind; clears up doubtful and obscure points; prevents mistakes; safeguards against accidents; invaluable at the Dispensing and Retail Counters. Price 1s., post free, from the compilers, Rouse Bros., 61 Charlotte Street, London, W., or through any Druggists' Sundriesman.

No Pharmacy complete without it.

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**INCLUDING** handsome Window Show and superior Mechanical Window Attraction, offered to all Agents for CURIO WAFERS, the absolutely safe and certain Cure for Headache, Toothache, Neuralgia, &c.

P. A. T. A., no outting.

Why stock grosses of inferior goods when we offer above advantages for 1 dozen order (9s.)? Write, Curio Company, Leadenhall House, London, E.O.

See C. and D. Diary, 1899, page 373.



# Exchange Column—Bargains.

$\frac{1}{2}$ d. per word with name and address. 1d. per word if we register the address and attach a number.

No Advertisement inserted for less than 6d.

Remittances payable to **EDWARD HALSE,** and crossed **MARTIN'S BANK, LIMITED.**

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### APPARATUS.

5-gr. pill-machine, cuts 24, good as new, 10s. HALFORD, Chemist, Hockley, Birmingham.

Dispensing scales, complete, in glass case, Maw's, cheap. CHURCHOUSE, 26 Kilburn Priory, London.

### BOOKS AND PERIODICALS.

10 vols. *Chemist and Druggist*, unbound, 1892 to 1896 inclusive; what offers? W. BATES, 106 King's Cross Road, W.C.

"*Chemist and Druggist*" from commencement to end of 1897, stitched, almost complete; what offers? HARRISON JONES, Denbigh.

B. & C. D., *C. & D., Pharmaceutical Journal*, unbound volumes, 3s. each; B. & C. D., and C. & D. Diaries; what offers? WILSON, Chemist, Oldham.

Gray's "Supplement to Pharmacopœia" (Redwood), excellent condition, published at 22s., take 10s. 6d., bargain. LEA, Chemist, Lady's Lane, Northampton.

Offers wanted for Quincy's "Pharmacopœia Officialis et Extemporanea," 1719, second edit., leather bound and perfect. M. ROSS, 27 Vine Street, Norton Malton.

"*Pharmaceutical Journal*," 1870 to 1898; *Chemist and Druggist*, 1860 to 1898, unbound; *Year-book of Pharmacy*, 1870 to 1898; what offers? HOCKEN, 31 Oldhall Street, Liverpool.

"*Chemist and Druggist*," Ph. J., B. & C., 316 lbs. weight, offers; also Martindale, 6th edit.; Squire's "Comp," 15th edit.; Wills' "Mat. Med.," 9th edit.; good condition. SMITH, Chemist, Rushden.

B.P. 1898, cash, or exchange for "Pharmaceutical Formulas," 1898; B.P. 1885, with Addenda, new; 40 numbers C. & D., Diary 1899. Cash offers, "STATIM," c/o Puddepham, The Gables, King Richard Street, Coventry.

What offers? Squire's "Companion," 1894; B.P. 1885; "Materia Medica" (Malsch); "Inorganic Chemistry" (Newth); "Analytical Chemistry" (Muter), 6th edit.; Proctor's "Pharmacy," 3rd edit.; "Heat and Light" (Glazebrook); "Dental Surgery" (Barrett). J. W., 38 Cole-ridge Road, Crouch End, N.

Vine's "Botany," 12s.; Strasburger's, 10s.; Prantl-Vine's, 4s.; Deschanel's "Philosophy," 10s.; Ramsay's "Chemistry," 2s. 3d.; Malsch, 3s. 6d.; Will's "Materia Medica," 3s.; Bernsthen's "Organic," 4s.; Remsen's, 2s. 6d.; Watt's "Chemistry," 4s.; Everett's "Physics," 1s. 6d.; Bentley's "Botsuy," 3s. HENRY, 16 Metley Street, Kennington, S.E.

### DRUGS AND CHEMICALS.

Best cash offers, 100-oz. original tin Howards' quinine. ENDLE, Chemist, Boscombe.

100-oz. original tin B. & S. quinine, 1s.; 25-oz. tin Howards', 1s. 1d. GRIFFIN, Chemist, Kidderminster.

3 lbs. gum. opii turc. opt., 9s. lb.; 2 lbs. ditto pulv., 11s. 6d. lb.; 4  $\frac{1}{2}$ -lbs. liq. opii sed. (Battley), 8s. lb.; 8 oz. morph. mur., 4s. 6d. oz.; 12 1-oz. arg. nit., fused (Johnston's), 1s. 6d. oz. 10/35, Office of this Paper.

2 lbs. ext. sennæ leg. liq.; 4 lbs. ext. cascara sagrada pulv.; 1 lb. acid salicylic.; 6 lbs. glycyrrhiza ammoniac, soluble; 3 lbs. jalapine; 1-lb. original bottle Armour's glycerole pepsinæ; 1 lb. iodine, resublimed; 1 lb. acid. tannic.; 6 oz. pulv. opii; 1 lb. pulv. stramonii fol.; what offers? TAFF & Co., 12 Bridge Street, Bristol.

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Four formulas.—Cough specific, neuralgic mixture, corn-cure, and tooth-ache; sell rapidly, and enormous profit; free 2s. 6d. "CHEMIST," 9 Ladys Lane, Northampton.

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Splendid new 12 by 10 camera, with Ross rapid symmetrical lens, Isoc. screen, stand and case, cost £30, price £15; Dallmeyer lens, 10 by 8, rapid rectilinear, 80s.; Optimus, 5 by 4, ditto, 17s. 6d.; Beck's 5 by 4 ditto, new, 50s. CLAYTON, Chemist, Oxford.

### SHARES.

Two Camwal shares. ROBERTS, 17 Waldegrave Road, Upper Norwood, S.E.

### SHOP FITTINGS.

To Chemists.—Fixtures, fittings, small stock, to be sold cheap; room wanted. Apply 146 Goldsmith's Row, Hackney, London.

220 shop-rounds, with contents, 2 large specie-jars, 4 2-gall. window-carboys, £7 10s. Address, "THOR" (9/3), Office of this Paper.

Removed from a doctor's surgery, about 160 shop rounds, various sizes, 3 doz. ung. jars, &c., 6 carboys, 36 pottles; suit working-class neighbourhood; drugs in many; £6 10s. the lot, to clear at once; a bargain. GILLIS, 13 Wych Street, Strand, W.C.

## PROPRIETARY ARTICLES.

Overstocked.—3 doz. Hay's frumentine, 4s. per doz., carriage paid ash with order. COX, Chemist, Kettering.

1  $\frac{1}{2}$  gross 1-lb. tins Brown's ammonia white soap (retail 4d.), 2s. per doz. f.o.r.; 3 doz. 2-lb. tins (8d.), 3s. 6d. doz. f.o.r.; unsoiled. BROS. Chemist, Slaithwaite.

3 doz. 1s. Barrow-Evans' restorer, 6s. doz.; 4 doz. 3s. 6d. Sheldon's restorer, 22s. doz.;  $\frac{1}{2}$  doz. 2s. 6d. Hopgood's cream, 18s. doz.; 1 doz. 2s. 6d. Melrose hair-restorer, 16s. doz.; 10 doz. 1s. Dorez hair-reser. 5s. 6d. doz.; 6 doz. 6d. Mechi's razor-paste 2s. 6d. doz.; 3 doz. 1s. eucalyptine, 4s. 6d. doz.; 4 doz. 1s. Ferguson's glycerine-halm, 6s. doz.; 6 doz. 1s. Dorez water cosmetique, 4s. doz.; 6 doz. 6d. ditto, 2s. 6d. doz.; 3 doz. 6d. Luke's panaficus mousquetaire, 3s. doz.; delivered from London, any quantity. JONES BROS., Holloway, N.

## MISCELLANEOUS.

What offers?—6 doz. Daisy headache powders, 1s. packets; so "Obstetrics," by Oazeaux and Farnier. \*9/11, Office of this Paper.

Burette, litre-bask, floats, retorts, flasks, dishes, tile, burette-holder, ret-stand, &c.; 30s. for lot, or sell separate. "LOGOS," 26 Blond Street, W.

Pill-machine, 4 grs., 10s.; 5-gall. galvanised oil-drum, with tap, &c.; also marble mortar and pestle, capacity about 1  $\frac{1}{2}$  galls., 5s. WILLS, 91 Hoxton Strees, N.

Three handsome brass 4-light gas chandeliers, very massive, nearly w fitted with Incandescent Co.'s burners; adopting side-light elec. Offers to MANN, 45 Rye Lane, Peckham.

Dental goods for sale.—Dia teeth, rubbers, compo., vulcanisers, files, lathes, presses, tool-cabinets, pair female heads advertising-bills, chemist's pestle-mortar. 101 Queen Street, Newton Abbot.

2-gall. still, with tub and worm complete, good as new, cheap, at 17s.; counter-scales, marble top, brass pans, 15s.; 5-gr. pill-machine, mahogany and brass, 10s. 6d. HARVEY, Margate.

For sale, a mahogany medicine-chest of superior workmanship, 14 in. 13 in. by 8  $\frac{1}{2}$  in. deep; contains 40 bottles, scales, weights, and necessities; should be seen. BAILEY, 174 Belsize Road, N.W.

Camwal share, highest offer; 3 forceps, 7s. 6d.; 15-gr. suppository-med, 3s.; British Homœopathic Pharmacopœia, 3s.; Attfield's "Chemist," 5s.; Bentley's "Botany," 2s. 6d.; Muter's "Chemistry," 5s.; Royle's Headland's "Materia Medica," 3s. 6d.; Fowne's "Chemistry," 5s. WILKERSON, Rushden, R.S.O.

Overstocked.—12 large bath sponges, retail over £8; 330 honeycombs, retail over £40 (1s. 6d. to 5s. 6d.), a few slightly damaged by wind-damp; also 220 (retail 1s.) honeycombs and 400 (retail 6d.) min Turkey and honeycomb; all good value; what offers, whole or part? TAYLER, Sherborne, Dorset.

Offered.—Bismuth, subcarb., 5s. 3d. lb., 4 lbs. 5s. lb.; iodoform, precl crystal, 14s. lb., 3 lbs. at 13s. lb.; ferri et quin. cit., Howards', 8s. lb.; Carter's nerve-pills, 10s. doz., 3 doz. at 9s. 9d.; 2 doz. kapur powders, 17s. 6d.; Tetlow's swandown powder, 3 doz. 9s., carriage paid London or suburbs. EASTMAN, Forest Lane, Stratford.

Three 2s. 9d. solar elixir; 2 2s., 3 1s. Bishop's eff. lithia cit.; 6 1s. 7. "Kurem" ointment; 3 1s. 1  $\frac{1}{2}$ d. Robinson's blood pills; 3 4s. 7. Durant's capsules; 2 1-lb. Nichol's food of health; 1 2s. 9d. extract of elder flowers; 6 1s. 1  $\frac{1}{2}$ d. Beach's composition; 1 4s. 6d. Wilkins' A1 mixture; 2 3s. 6d. Mexican hair-restorer; 3 1s. "White Be" malt and oil; 1 2s. 9d. Freeman's phosphorus syrup; 1 7s. 6d. To-sond's American sarsaparilla; 1 4-oz. Syme's lac bismuthi; for half-value, carriage forward; teeth-instruments, 1s. 6d. pair; 18 stopp-instruments and 10s. 6d. can Weston's cement, £1; case of 9 in-struments, 10s.; about 1 cwt. Thorley's food and ovum, various s. 17s. 6d.; 9 doz. white-glass screw-topped feeders, black fittings, &c. 2 doz. spare bottles, 18s.; 2 14-lb. tins horse-powders, 9s. 6d.; cash w orders. DAVIES, Chemist, Penistone.

## WANTED.

Latin Pharmacopœia, any edition, state price. 9/6, Office of this Paper. Tinture-press and tablet-machine. COLE, 4 Bank Buildings, Boscombe.

Strong outside-lamp; state fully condition, size, weight, price. HARVEY, Margate.

Old electric lamps and scrap platinum. P. ROWSELL, 9 Derwent Grove, East Dulwich, London.

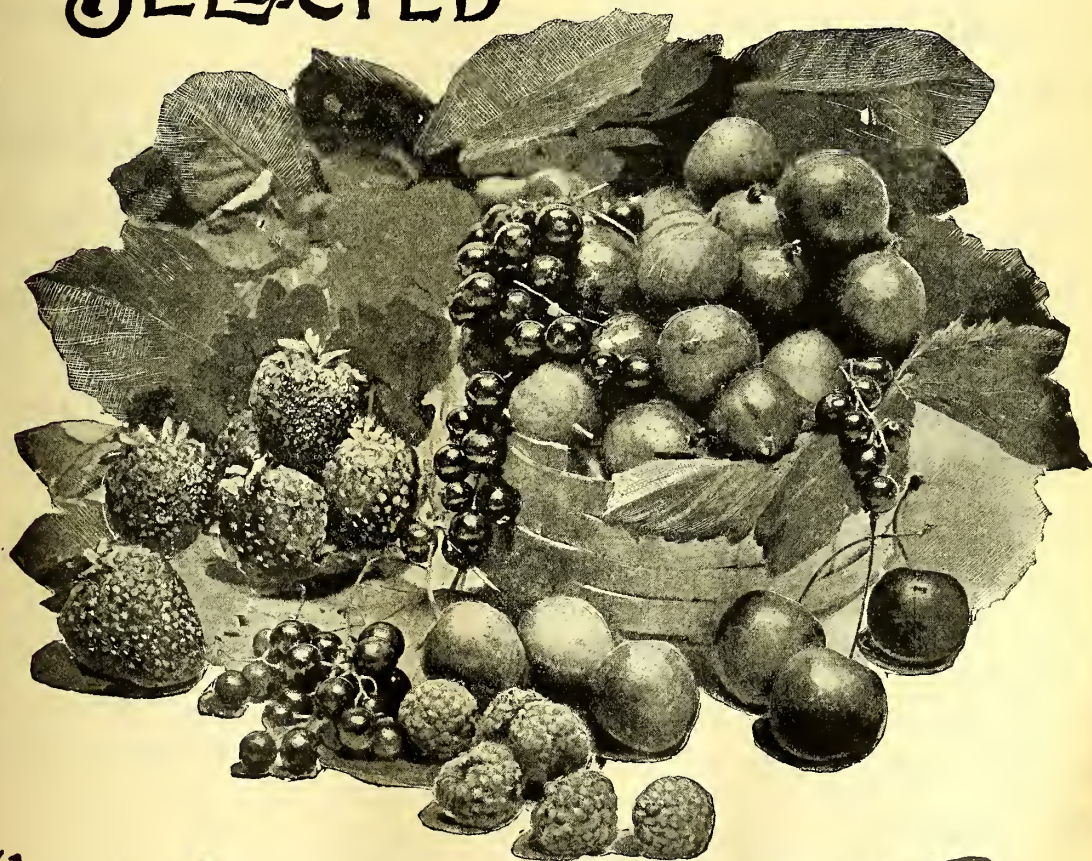
"*Chemist and Druggist*," June 27, 1896; state price. SNEED, 25 Rugby Street, Manchester.

Counter containing drawers, to fit 10 ft. 6 in. space, for dispensing Particulars to "TWELVE" (6/40), Office of this Paper.

Machinery for spreading surgical plasters on cloth in lengths; steel heat preferred. "PLAISTERS" (6/14), Office of this Paper.



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Arrangements have been made to give the trade a profit on the samples they may distribute to the public, the Company selling these at the following prices :—

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14/6 per doz.

Less usual Discount.

## PATENT SAFETY ENEMA.

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Forms its own Reservoir. All parts are enclosed in Box.  
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The above illustration represents an Enema which is arranged so that the box will form the reservoir for the fluid to be injected. By being used in this way any possibility of injecting air is avoided, owing to the fact that the suction end of Enema is screwed into bottom of reservoir. It is light and portable, and most suitable for travelling. The Enema is made of the finest quality rubber in one continuous length, and will last for many years with ordinary usage; it is also fitted with our patent non-corrosive glass valves. The reservoir which forms the box is made of iron, enamelled inside and out.

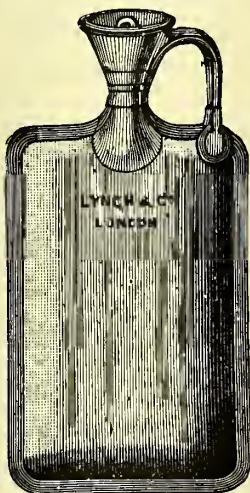
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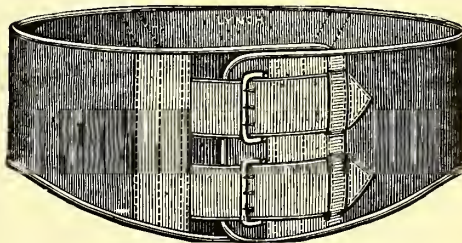
6 x 12 each	—	3/11	10 x 12 each	—	5/6
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To be used for Inhalations of Iodine, Terebene, Pumiline, &c., for Sore Throats, Bronchial Affections, Nasal Catarrh, Hay Fever, &c.  
Complete in handsome maroon box, richly gilt, with Bottle for Medicament, and Cotton Wool.

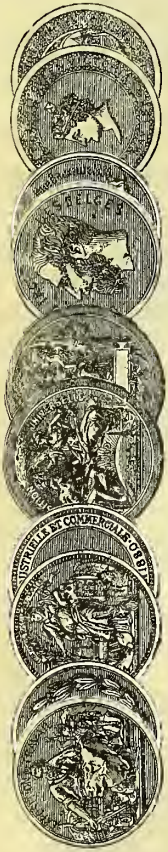
8/6 per dozen, less usual Discount.

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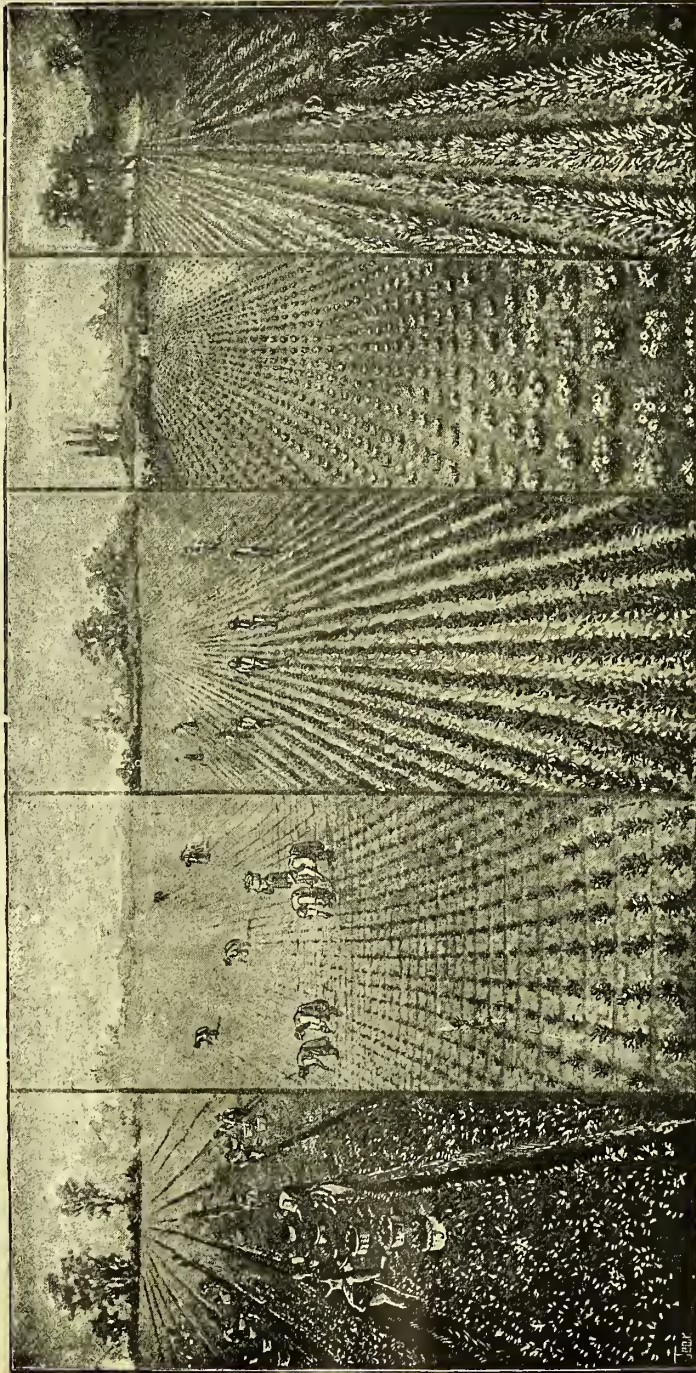
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PRIZE  
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Unscented,  
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The longer it is kept the more it improves and increases in value  
LIBERAL TERMS TO THE TRADE.

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To Her Majesty, &c., &c.

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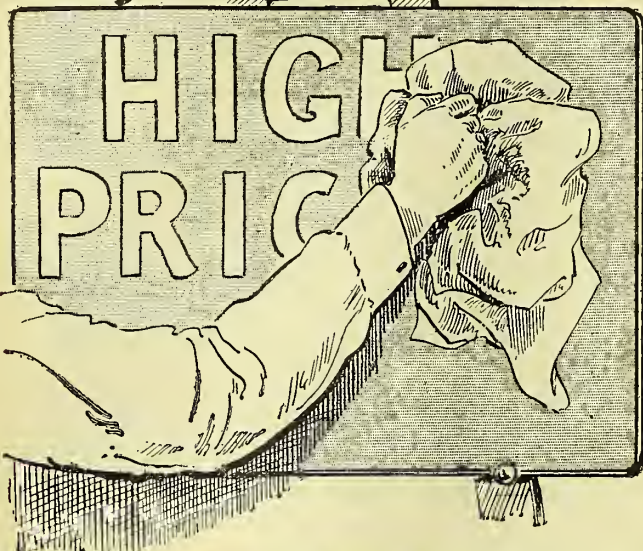
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6d. size, 45/- per gross; 1/- tablets, 90/- net cash.

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2/9 size, 21/- per dozen; 4/6 size, 36/- per dozen.

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3/6 size, 30/- per dozen bottles; 5/- size, 40/- per dozen.

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3/6 size, 27/- per dozen; 5/- size, 36/- per dozen.

**"Bloom of Clematis" Face Powder.**

**"Depilatory" & Dr. Mackenzie's Reducing Pills**

### SPECIAL NOTICE.

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**SPURWAY & CIE.***Perfume Manufacturers,*  
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For the Sick-room and Toilet.

In 1/- and 2/6 Bottles only, 8/- and 20/- per doz. respectively.

**"ODORINE."**A Liquid Dentifrice and Mouth Wash, prepared  
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Various kinds, sizes, and prices.

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For Asthma, Catarrh, Hay Fever, etc.

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Evans, Gray & Hood ("Solazzi")  
Evans, Sons & Co. (Savarini)  
Hillabys, J.  
Jeanard, Gazan & Doumin

**LIQUORS**

Fletcher, Fletcher & Co.  
Lloyd, T. Howard, & Co.  
Oppenheimer, Son & Co.  
Stevenson, H. E., & Co.

**LOOFAHS**

Solport Bros.

**LOZENGES**

Allen & Hanburys  
Denoual, J.  
Gibson, R., & Sons (Mantras.)  
Guest, T., & Co., Lim.  
Jackson, T.  
Raines & Co.  
Warrick Bros.

**LUNG PRESERVERS**

Zimmer & Co.

**MACHINERY**

Bennett, Sons & Shears, Lim.  
Bera, G.  
Fox, Fuitz & Co.  
Gardner, W., & Sons  
Hartick, J. L., & Co., Lim.  
Mellin, C.  
Newman, W. | Pindar, J. W.  
Werner, Pfeiderer & Perkins, Lim.

**MAGNESIA**

American Magnesia Co.  
Bishop, A., & Sons, Lim.  
Bleasdale, W. W., & Co.  
Henry, T., & W. (Calcined)  
Lloyd, T. Howard, & Co.  
Washington Chemical Co.

**MALT EXTRACT, &c.**

Allen & Hanburys  
Burroughs, Wellcome & Co. (Kepler's)  
Distilleries Co., Lim.  
Hearon, Squire & Francis  
Parke, Davis & Co.  
Price's Patent Candle Co., Ltd.  
Raines & Co.  
Raines, Clark & Co.  
Robinson & Co.

**MARKING INKS**

John Bond's Crystal Palace

**MEDICINE CHESTS**

Burroughs, Wellcome & Co.  
Day, Son & Hewitt Veterinary  
Day & Sons (Veterinary)

**MERCURIALS**

Howards & Sons  
May & Baker, Lim.  
Tyler, T., & Co., Lim.

**METH. SPIRIT, &c.**

Boord & Son | Burrough, J.  
Jones & Co. | Phillips, G., & Co.

**MICROSCOPES**

Darton, F., & Co.  
Ross, Lim.

**MORPHIA**

Macfarlan, J. F., & Co.  
Smith, T. & H. & Co.

**MILK**

Hawkesley, T. (Sterilizer)  
Nestle, H. (Condensed)  
Lumley, L., & Co. (Sterilised)

**OILS, VARNISHES**

Cooper Bros. & Co.  
Cooper & Co.  
Pinchin, Johnson & Co.  
Stern Bros. (White.)

**OINTMENT BASES, &c.**

Burroughs, Wellcome & Co. (Lanoline)  
Chesbrough Co. (Vaseline)  
Cooper & Co.  
Lloyd, T. Howard, & Co.  
Stevenson, H. E., & Co.  
Thierry, A.

**OXIDE OF ZINC**

Hubbuck, T., & Son, Lim.  
Stevenson, H. E., & Co.

**PALATINOLIDS**

Oppenheimer, Son & Co., Lim.

**PATENT AGENTS**

Barker, Reginald W.

**PATENT MEDCNS, &c.**

Anglo-American Drug Co., Ltd.  
Beecham, T. (Pills)  
Benedictine Salve  
Clarke's Blood Mixture  
"Daisy" Headache Powders  
Edwards & Son  
Evans, Lescher & Webb  
Evans, Sons & Co.  
Fennell (Powders)  
Goodall, Backhouse & Co.  
Guy's Tonic  
Holloway (Pills and Oint.)  
Hovenden & Sons  
Lageman, C.  
Lalor (Phosphodyne, &c.)  
May, Roberts & Co.  
Nicolas & Co.  
Post, A. M., Lim.  
Powell, Thomas, Lim.  
Richards, J. M.  
Thierry, A. (Balsam and Ointment)  
Vogeler, Chas. A., Co.

**PENS**

Jewel Pen Co.

**PEPPERMINT OILS**

Bush, W. J., & Co.  
Jackson, J., & Co.  
Ransom, W., & Son  
Stevenson & Howell

**PEPSIN, &c.**

Armour & Co.  
Burroughs, Wellcome & Co.  
Cerebos Limited (Pepsalia)  
Fairchild Bros. & Foster  
Newbery, F., & Sons (Ingulvin)  
Parke, Davis & Co.  
Stevenson, H. E., & Co.

**PERFUMERY, FANCY SOAPS**

Allen & Hanburys, Lim.  
Ayrton & Saunders  
Bleasdale, Lim.  
Blondeau & Co. | Boehm, F.  
Brooks, Tom  
Burgoyne, Burdighes & Co.  
Burroughs, Wellcome & Co.  
Bush, W. J., & Co.  
Carmichael, M. W.  
Chesbrough Co.  
Cook, E., & Co.  
Corbyn, Stacey & Co.  
Evans, Sons & Co.  
Farina, J. M.  
Hovenden & Sons  
Jackson, J., & Co. | Lanoline  
London Essence Co.  
Lynch & Co., Lim.  
Macfarlan, J. F., & Co.  
Mason, C. E., & Co.  
Newbery, F., & Sons (Berdoes)  
Pears, A. & F., Lim.  
Potter & Clarke (Sachets)  
Roberts & Sheppey  
Sainsbury, S.  
Sanger, J., & Sons  
Schutze, E., & Co. [Co., Lim.  
Sharp Bros. Soap & Perfumery  
Singer, Jas. & Co.  
Tidman & Son | Treatt, R. C.  
Van Oppen & Co.  
Vigo, Jules, & Co., Lim.  
West, T. (Ocell's Mona)  
Wilkinson & Co.  
Wright, Layman & Umney

**PEROX. OF HYDR.**

May & Baker, Lim.  
Robbins & Co.  
Sanitas Co., Lim.  
Tyler, T., & Co., Lim.

**PESSARIES**

Rendell, W. J.

**PETROLEUM JELLY, &c.**

Allen & Hanburys  
Christy, T., & Co.  
Dee Oil Co., Lim.  
Haller, G. & Co.  
Snowdon, Sons & Co., Ltd. (Jelly)  
Stern Bros.

**PILL MACHINES**

Bennett, Sons & Shears  
Pindar, J. W.

**PHARM. PREPS.**

Allen & Hanburys  
Armour & Co. | Baile Bros.  
Baron, Harveys & Co.  
Boehm, Fredk.  
Boehringer, C. F., & Sohne  
Burgoyne, Burdighes & Co.  
Burroughs, Wellcome & Co.  
Davies, Gibbins & Co.  
Duncan, Flockhart & Co.  
Evans, Gadd & Co.  
Evans, Lescher & Webb  
Evans, Sons & Co.  
Fairchild Bros. & Foster  
Farris & Co.  
Fletcher, Fletcher & Co.  
Fortuna Hamatogen  
Hearon, Squire & Francis  
Hewlett & Son  
Hoffmann, La Roche & Co.  
Howards & Sons  
Lageman, C.  
Lothouse & Salmter  
Macfarlan, J. F., & Co.  
Mackey, Mackey & Co.  
Martindale, W.  
May & Baker, Lim.  
Oppenheimer, Son & Co., Lim.  
Potter & Clarke  
Smith, T. & H., & Co.  
Smith, W. E., & Co.  
Squire & Sons  
Stern Bros.  
Stevenson, H. E., & Co.  
Tyler, T., & Co.  
"Vasogen"

**PHOTOGRAPHIC**

X RAY, &c.  
Barclay & Sons, Lim.  
Boehm, Fredk.  
Burroughs, Wellcome & Co.  
Butcher, W., & Son  
Caddell & Neall, Lim.  
Darton, F., & Co.  
Edwards, T., & Co.  
Higgins, C. M., & Co.  
Houghton, G., & Sons  
Locky, J. H., & Co.  
Lowe, B., & Co.  
Mackey, Mackey & Co.  
Raphael, J., & Co.  
Ross Lim.  
Shew, J. F., & Co.  
Thornton-Pickard Co., Lim.  
Tyler, T., & Co.  
White, Alfred, & Sons  
Woolley, J., Sons & Co.

**PILLS, Coated, &c.**

Allen & Hanburys, Lim.  
Beecham, Thomas  
Bleasdale & Co., Lim.  
Box, Arthur H., & Co.  
Davies, Gibbins & Co.  
Day, Hill & Son, Yates & Hicks  
Duncan, Flockhart & Co.  
Evans, Gadd & Co.  
Hearon, Squire & Francis  
Holloway, Professor  
Kearley, C. & G.  
Lloyd, T. Howard, & Co.  
McKesson & Robbins  
Parke, Davis & Co.  
Powell, Thomas, Lim.  
Scottish Sugar-coated Pill Co.  
Scott's, Dr.  
Vand, S. R., & Co. (Coated)  
Warner, W. R., & Co. (Coated)  
Wyley's, Lim.

**PLASTERS**

Chesbrough Mfg. Co.  
De St. Dalmat  
Evans, Sons & Co.  
Seabury & Johnson  
Solport Bros. (Court)  
Timpson, J., & Co.

**POLISHING**

Benjamin, H. S.  
Bradley & Bourdas (Albatun)  
Fordham, W. B., & Sons, Lim.  
Oakley, J., & Sons, Lim.  
Raines & Co. (Stockton)

**PRINTING**

Blake & Mackenzie  
Bowers Bros.  
Corran, J. R. (Glass)  
Ford, Shapland & Co.  
Harrison & Walde  
Silverlook, H.  
Thomas & Co.  
Townsend, J.

**QUININE**

Boehringer, J. F., & Sohne  
Howards & Sons  
Imperial Quinine Co.  
Emith, S., & Co. (Wine)  
Zimmer & Co.

**RENNET**

Duncan, Flockhart & Co.  
Tomlinson & Hayward

**RESPIRATORS**

Solport Bros.

**RUBBER STAMPS**

Bond, J. (Crystal Palace)  
Richford, E. M.

**SACCHARIN**

Anglo-Continental Chemical Works Lim.  
Saccharin Corporation, Lim.

**SALICIN**

Macfarlan & Co.  
Emith, T. & H. & Co.



**SAUCES, PICKLES**  
Goodall Backhouse & Co.**SCHOOLS, &c.**  
Central (Edinburgh)

Davis, F.  
Glasgow and West of Scotland  
School (T. S. Barrie)  
Goldsmiths' Institute  
Gordon's (Robt.) School  
Laurance, L. (Optical)  
Leeds College of Pharmacy  
Liverpool School  
Manchester Col. of Pharmacy  
Metropolitan Col. of Pharmacy  
North of England School  
Northern College of Pharmacy  
Royal Dispensary (Edinburgh)  
South London School of  
Pharmacy, Lim.  
Westminster College

**SEA SALT**

Tidman &amp; Son, Lim.

**SEEDS**Macqueen, J.  
Potter & Clarke**SEIDLITZ POWDER &c.**  
Hors & Co. | May, Roberts & O.**SELTZOGENES**  
May, Roberts & Co.**SERUM**

Greiff, R. W., &amp; Co.

**SHAVING**

Hovenden & Sons (Euxesels)  
Lloyd, A., & Co. (A. S. Lloyd's  
Euxesels)

**SHEEP DIP**

Fletcher Bros. & Co.  
Joyce's Sanitary Compounds Co.  
Sanitas Co., Lim.

**SHOP FITTERS**

Aistrom, C.  
Ayrton & Saunders  
Bowling & Govier  
Bygrave, J. & W.  
Ellison, F. E., & Co.  
Evans, Sons & Co.  
Josephs, Phillie, & Son  
Maw, S., Son & Thompson  
Mitchell, A.  
Parnall & Sons, Lim.  
Treble, G., & Son  
Yates, W. S.

**SIZE**

Meggett, S., &amp; Sons, Lim.

**STARCH**

Critchley, T. (Gloss)  
Hebden, W. C. (Gloce)

**SOAP**

Allen & Hanburys, Lim.  
Ayrton & Saunders  
Beetham, T., & Son  
Bromley, H., & Co.  
Calvert, F. & Co.  
Cook, E., & Co.  
Cooper & Co.  
Croesfeld, J., & Sons, Lim.  
Gibbs, D. & W. (Medicated)  
Joyce's Sanitary Compounds Co.  
Mackenzie's, Dr. (Arsenical)  
Maypole Soap Co., Lim.  
Peacock's Ovaline Soap Co.,  
Lim.  
Pears, A. & F., Lim.  
Sanitas Co., Lim.  
Sharon Chemical Co., Lim.  
Sharp Bros. Soap, &c., Co., Ltd.  
Sinclair, J., & Son  
Tidman & Son  
Vinolia Co., Lim.  
Wright, Layman & Umney

**SPECTACLES, &c.**

Botwright & Grey  
Darton, F., & Co.  
Laurance, L.  
Raphael, J., & Co.  
Wholesale Company of Spec-  
tacle Makers

**SPONGES**

Coban, I. & M.  
Creeswell Bros. & Sohmlits  
Peterson, M., & Co.

**STOVES**

Clark, S., &amp; Co., Lim.

**SUGAR**

Macne &amp; Sons

**SURGICAL**

Bailey, W. H., & Son  
Barolay & Sons, Lim.  
Burgoyne, Burbridges & Co.  
Domen Belle Co.  
Kachmann Bros. & Walsh  
Ferris & Co.  
Galen Manufact'g Co., Lim.  
Hatriek, J. L., & Co., Lim.  
Haywood, J. H.  
Kreine & Seemann  
Liverpool Patent Lint Co.  
Lynch & Co., Lim.  
Macfarlan, J. F., & Co.  
Manson, R.  
Matto, Lim.  
Maw, S., Son & Thompson  
Oppenheimer, Son & Co., Lim.  
Powell & Barstow  
Quelch, H. C.  
Robinson & Sons  
Schutze, F., & Co.  
Wilkinson & Co.  
Wood, Vincent  
Woodruff, T.

**STOPPERS**

Austin & Co. (Sprinklers)  
Barnett & Foster | Mellin, C.  
Patent Stopper, Box, and  
Stamping Co., Lim.  
Stipendium Stopper Co., Lim.

**SYPHONS**

Barnett & Foster  
British Syphon Co.  
Chemists Aerated and Mineral  
Waters Association, Lim.  
Geraut, E., & Co.  
Idris & Co., Lim.  
Kilner Bros. | Mellin, C.

**SYRUPS**

Beckett, W., Sons & Co.  
Fletcher, Fletcher & Co.  
(Liquore)  
Stevenson & Howell

**TABLETS**

Corean, J. R. (Advertising)  
Roberts & Sheppy

**TEA**

Thomas & Co.  
Tower Tea, Lim.

**TEETHING PADS**

Marriott, E., &amp; Co.

**THERMOMETERS**

Ayrton & Saunders  
Bailey, W. H., & Son  
Darton, F., & Co.  
Denton, S. G.  
Pastorelli & Rapkin  
Peroni, A.  
Wilkinson & Co.

**TINCTURES**

Evans, Sons & Co.  
Hewlett, C. J., & Son  
Lloyd, T. Howard, & Co.  
Parke, Davis & Co.  
Wyleys, Lim

**TOBACCO & CIGARS**

Singleton &amp; Cole, Lim.

**TOOTH PASTE**

Beetham, T.  
Jewsbury & Brown  
Maw, S., Son & Thompson  
Parke, Davis & Co.  
Sutton, O., & Co.  
Woods, M. (Arca)

**TRADE MARK AGENTS**

Barker, Reginald W.

**VACCINATION**

Maw, S., Son & Thompson  
Vaccine Association (Lymph)

**TOILET**

Allen & Hanburys, Lim.  
Ayrton & Saunders  
Barker, F., & Son  
Beetham & Son  
Burroughs, Wellcome & Co.  
(Lanoline)  
Croesfeld, J., & Sons, Lim.  
Dee Oil Co., Lim.  
Hovenden & Sons  
Lynch & Co., Lim.  
Major & Co., Lim.  
Marshall & Co.  
Maw, S., Son & Thompson  
Peacock's Ovaline Soap Co.,  
Lim.  
Quelch, H. C.  
Sanitas Co., Lim.  
Sharon Chemical Co., Lim.  
Sharp Bros. Soap & Perfumery  
Co., Lim.  
Solport Bros.  
Southall Bros. & Barolay  
Squire & Sons  
Tidman & Son, Lim.  
Townsend, J. (Paper)  
Vinolia Co., Lim.

**VALUERS AND****TRANSFER AGENTS**

Berdoo & Co. | Brett, F. J.  
Judd & Manners  
Orridge & Co.  
Tomlinson, Thos., & Son

**VANILLA**

Pavia, F.

**VARNISHES, &c.**

Brown, W., Sons &amp; Co.

**VASELINE**

Chesebrough Co.

**VETERINARY**

Bird & Storey  
Chambers, J. F.  
Day & Sons  
Hewlett, C. J., & Son  
Dobson, G.  
Elliman, Sons & Co.  
Harvey & Co.  
John, A., & Co.  
Leng, A., & Co.  
Lloyd, T. Howard, & Co.  
Sanitas Co., Ltd | Spratt's (Dogs)  
Walker, Troke & Co.

**VINEGAR**

Bramby & Co.  
Grimble & Co.

**VINOLIA Superfatted**

Vinolia Co., Lim.

**WEED KILLER**

Acme Chemical Co., Lim.  
Fletcher Bros. & Co.  
North of Ireland Chemical Co.  
Sanitas Co., Lim.  
Tomlinson & Hayward

**WHOLESALE & EXPT  
DRUGGISTS**

Allen & Hanburys  
Allen, S., & Son | Bales Bros.  
Barron, Harveys & Co.  
Bleasdale & Co., Lim.  
Burgoyne, Burbridges & Co.  
Euch, W. J., & Co.  
Corbyn, Stacey & Co.  
Davies, Gibbins & Co.  
Davy, Hill & Son, Yates & Hick  
Evans, Gadd & Co.  
Evans, Sons & Co.  
Evans, Leascher & Webb  
Ferris & Co. | Graf, F.  
Goodall, Backhouse & Co.  
Harker, Stagg & Morgan  
Hearson, Squire & Francis  
Hewlett & Son  
Kemp, Wm., & Son  
Lloyd, T. Howard, & Co.  
Lofthouse & Saltmer  
London Essence Co.  
Macfarlan, J. F., & Co.  
Potter & Clarke  
Raines & Co.  
Raines, Clark & Co.  
Smith, B. A., & Co.  
Stevenson, H. E., & Co.  
Taylor & Colledge  
Willows, Francis, Butler &  
Ayscough Thompson  
Woolley, Jas., Sons & Co.  
Wright, Layman & Umney  
Wyleys, Lim.

**WINES, SPIRITS,****BEER, &c.**

Beafof & Co.  
Bowen & McKeonhne  
Burrough, J.  
Clark, J.  
Coleman & Co., Lim.  
French Hygienic Society  
Goodall, Backhouse & Co.  
Holloway's Wine Co., Lim.  
Miller, A., & Co. (Orange)  
Phillips, G., & Co.  
Robinson, B. (Orange)  
Smith, S., & Co., Lim. (Orange)  
Stevenson, H. E., & Co.,  
Symons, J., & Co., Lim.  
Wilcox & Co., Lim.  
Wright, Layman & Umney  
Wyleys, Lim.

# LIEBIG

# COMPANY'S

# EXTRACT

SIGNED



IN BLUE.

Is Manufactured on scientific principles from the finest cattle reared upon the richest pastures of the world.

For over thirty years the Standard Extract of Beef, it invariably pleases.

Quantities of £5 worth and upwards supplied carriage paid by

**CORNEILLE DAVID & CO.**

4 Fenchurch Avenue, LONDON, E.C.



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**THE**  
**ANGLO-CONTINENTAL CHEMICAL WORKS,**  
**LIMITED**

**1 & 2 Rangoon St., Crutched Friars,  
 LONDON, E.C.**

**4 Albert Square,  
 MANCHESTER.**

# **SACCHARIN**

*We beg to confirm our previous statements to their FULLEST extent.*

**We again draw the special attention of all Consumers to our**

**SACCHARIN** "Tigris Brand," **555** times **SWEETER** than Sugar.

**THE PUREST. THE SWEETEST. THE CHEAPEST PRODUCT IN THE MARKET.**  
**MANUFACTURED BY PROCESSES DIFFERING FROM ANY**  
**OTHER, WHETHER PATENTED OR NOT.**

**STRENGTHS SUPPLIED: 555 (purest), 475 and 440 (crystals and "soluble") 350, 330, and 300 (pure and "soluble").**

**WE DEFY ANY COMPETITION BOTH FOR PRICE AND QUALITY.**  
**EVERY GUARANTEE CHEERFULLY GRANTED.**

**Special Prices and Terms for Contracts extending over a certain period.**  
 (Delivery as required by customers).

## **PATENT SPECIALITIES.**

**EUCASIN.** The best Dietetic, containing 95 per cent. Casein. The most nourishing and strengthening food.

**GUAIA CETIN.** The latest and most approved remedy for Tuberculosis. Combines the properties of Carbonate of Guaiacol and Carbonate of Creosote in a much higher degree without any of their drawbacks.

**MIGROL.** The most effective and the only harmless remedy for Headache, Toothache, Sick Headache, and all Pains of Nervous Origin.

**APPLY FOR SAMPLES AND LITERATURE.**



**BARNETT & FOSTER**

MANUFACTURERS.

**The "COMPACT"**  
CONTINUOUS ACTION  
**Soda-Water Machine**

For use with the Liquefied Carbonic Acid Gas.

Specially designed for use where space is an object, and for those having a large retail trade, such as Chemists, Hospitals, Restaurateurs, Hotel Proprietors, &c. They are ready for work immediately, require no fixing, and produce Aerated Waters of the very highest quality at a minimum of cost.

We guarantee to produce a better article with these than any other system adapted for using the Liquefied Gas, and at a lower pressure, thus effecting an immense saving in bottles, and also reducing risk of accidents.

.....

**NO DANGER.****NO MESS.****PERFECTLY RELIABLE.**

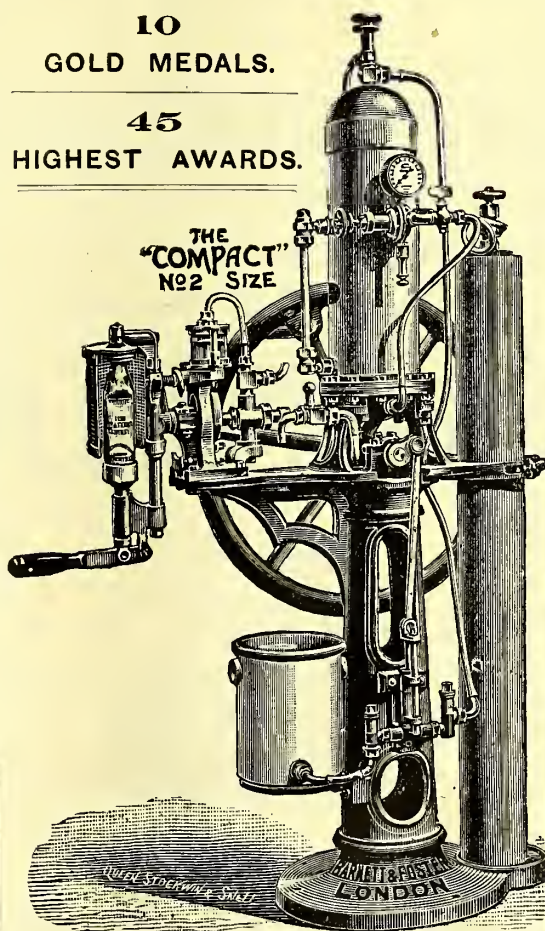
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*In use by*

*Leading Chemists in all parts of the United Kingdom.*

**10**  
**GOLD MEDALS.**

**45**  
**HIGHEST AWARDS.**



**No. 1 Size**, complete with Turnover and Syphon-filling Machine, and fitted with fast and loose Pulleys for driving by Power. Code word *Abbadaba* **£60**

*Two Fillers included.*

**Producing Capacity by Hand-power** 600 dozen per day.

**Ditto by Power**, 1,200 dozen per day.

**No. 2 Size**, complete with Turnover and Syphon-filling Machine. Code word *Abbafo*. **£48**

*Two Fillers included.*

**Producing Capacity by Hand-power** 350 dozen per day.

**Ditto by Power**, 700 dozen per day.

**No. 3 Size**, complete with Turnover or Syphon-filling Machine. Code word with Turnover, *Abbaka*; with Syphon-filler, *Abbaka*. **£33**

**Producing Capacity by Hand-power** 200 dozen per day.

Syrup Pump fitted to the Turnover Filling-machine on either of above (add "s" to code word), £2 2s. extra. If fitted with one Filling-machine only, the two largest Machines are charged £3 less than above prices.

*Sole Inventors and Manufacturers of the***"Niagara" Bottle and the London-made Syphon****KNOWN ALL OVER THE WORLD.**

.....

*Illustrated Descriptive Catalogue of every requirement for the Mineral Water Trade on application.***Niagara Works, 26<sup>T</sup> EAGLE WHARF ROAD, LONDON, N.**



# SALUTARIS

CARRIAGE PAID BOTH WAYS.



Scale	NO CUTTING OF PRICES PERMITTED. <i>Retail prices on application.</i>	NET TRADE PRICES for Cash with Order. * Cases and Bottles (returnable) charged extra as below.						In Minimum Quantities of
		Per doz. Quarts	Per doz. Pints	Per doz. Nips	Per doz. Syphons	Per gall. in Case of 2 Jars	Per gall. in Case of 4 Jars	
	London and Suburbs, within radius of Carter, Paterson & Co., who deliver Full Goods and collect Empties free of charge	2/4	1/5	1/3	4/-	7d.	6d.	1 doz. Qts., 2 doz. Pts., 4 doz. Nips, 1 doz. Syphons, 1 Case of 2 1-gall. Jars, 1 Case of 4 1-gall. Jars.
	Places distant from London Not exceeding 30 miles	2/10	1/11	1/6	4/6	8d.	8d.	3 doz. Qts., 6 doz. Pts., 12 doz. Nips, 3 doz. Syphons, 4 Cases of 2 1-gall. Jars, or 2 Cases of 4 1-gall. Jars.
A	Over 30 miles	3/1	2/2	1/7	4/6	9d.	9d.	6 doz. Qts., 12 doz. Pts., 16 doz. Nips, 3 doz. Syphons, 4 Cases of 2 1-gall. Jars, 2 Cases of 4 1-gall. Jars.
B	" 80 "	3/4	2/2	1/9	4/6	10d.	10d.	
C	" 130 "	3/7	2/2	1/9	4/6	11d.	11d.	
D	" 180 "	3/10	2/5	1/9	4/6	1/1	1/1	
E	" 250 "	4/1	2/8	1/9	4/6	1/3	1/3	

\* Deposit on Cases and Bottles (returnable) charged as follows: 1 doz. Quarts, 3/-; 2 doz. Pints, 4/-; 4 doz. Nips, 7/-; 1 doz. Syphons 26/-; 3 doz. Quarts, 9/-; 4 doz. Pints, 8/-; 6 doz. Pints, 12/-; Case of 2 1-gall. Jars, 4/6; Case of 4 1-gall. Jars 9/-. These amounts are refunded when the Empties are returned in good order.

Certain places served by sea are excepted from the above rates, such as Aberdeen, Belfast, Brechin, Cork, Dublin, Dundee, Edinburgh, Forfar, Glasgow, Kildare, Limerick, Londonderry, Montrose, Newbridge, Newcastle-on-Tyne, Perth, St. Andrews, Tipperary, &c., which are supplied at Scale E; Isle of Wight, Jersey, and Guernsey at Scale B; Alderney and Sark at Scale C.

## SALUTARIS WATER CO.

The Distillery, 236 Fulham Road, London. S.W.

Telephone No. 629, Kensington.

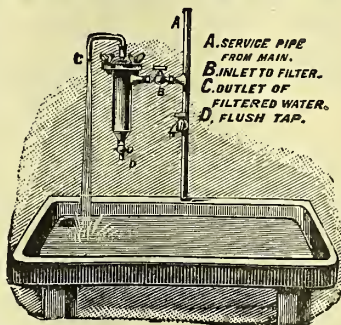
Telegraphic Address: "SALUTARIS LONDON."

# THE BERKEFELD FILTER.

In the Berkefeld Filter the filtering medium is in the form of hollow cylinders or candles of various sizes, made of Kieselguhr, a substance which, on account of its enormous porosity, consisting, as it does, of the silicious skeletons of diatoms, is an ideal filtering medium.

The advantages claimed for the Berkefeld Filters are:—

- 1.—They are simple in construction, and can be easily cleaned and sterilised.
- 2.—The filtrate is absolutely free from any suspended matter and from germs, provided proper attention is paid to regular cleaning and sterilising.
- 3.—They give an output of sterile filtrate from 5 to 10 times larger than any other germ-proof filter.



FILTER H (as sketch) to attach

to service-pipe -- ... £2 2 0

Smaller size ... -- ... 1 10 0

Glass Table Filters from ... 0 8 9

Extract from the Special Report to the "British Medical Journal" on "The Relative Efficiency of Water Filters," by Drs. Sims Woodhead and Cartwright Wood.

"Experiments were carried out with the Filter H, an exceedingly good model, which seems to subserve the functions of a filter better than any we have yet seen described. . . . The output is so large, that there is no reason why such filters should not supply sufficient water for all household requirements."

"We must accordingly conclude from the extensive series of experiments carried out with these Berkefeld Filters that they afford complete protection against the communication of water-borne disease."

Chemists will find these Filters a profitable line, and one they can confidently recommend to their customers.

Counter Filters specially adapted for Chemists doing a trade in Saline and Summer Drinks.

NO MINERAL WATER PLANT COMPLETE WITHOUT A BERKEFELD FILTER.

FULL ILLUSTRATED LIST AND TRADE TERMS ON APPLICATION.

CORRESPONDENCE AND VISIT TO SHOWROOMS INVITED.

THE BERKEFELD FILTER CO., LIMITED, 121 OXFORD STREET, LONDON. W.



# If you are a Chemist

and want to move with the times ; want to increase your business all round ; want to gain your customers' approval and extended patronage by supplying a first-rate article, and so build up a large trade in Aerated Table Waters, just drop a line to CAMWAL'S nearest factory, and you will receive their terms and prices by return of post. No matter how small your Aerated Water sales may be now, you will soon greatly increase them with the aid of **CAMWAL** Waters and the assistance of **CAMWAL'S** advertising devices.

Be assured that

## CAMWAL can help you!

Just address **CAMWAL'S** manager at their factory in your district, viz. :—

### **LONDON** Central Factory—

Gifford Street and Pembroke Street, Caledonian Road, N.

Telephone: 7547 King's Cross. Telegrams: "Rubine, London."

### **NORTH OF ENGLAND** Branch—

Montpellier Works, Starbeck, **HARROGATE.**

Telegrams: "Chemists, Starbeck."

### **NORTH-WEST OF ENGLAND** Branch—

Camwal Works, Longsight, **MANCHESTER.**

Telephone No. 3761. Telegrams: "Effervesce, Manchester."

### **MIDLAND COUNTIES** Branch—

Rock Spring Works, Cheston Road, Aston, **BIRMINGHAM.**

Telephone No. 2615. Telegrams: "Purity, Birmingham."

### **WEST OF ENGLAND** Branch—

Camwal Works, **BRISTOL.**

Telephone No. 212. Telegrams: "Camwal, Bristol."

### **SOUTH LONDON** Branch—

Raven-Spring Works, **MITCHAM.**

Telephone No. 21 Wimbledon. Telegrams: "Camwal, Mitcham."



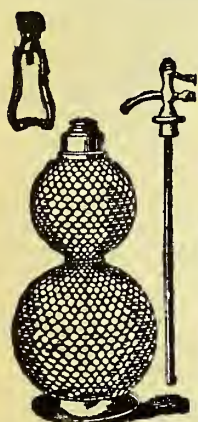
# Hunyadi János

Known, after 25 years' test in the United Kingdom, as the most popular, safest, and best Natural Aperient Water, is now being supplied through the Distributing Wholesale Houses all over Great Britain and Ireland, at prices fixed by the Proprietor, Mr. Andreas Saxlehner, of Budapest, Hungary, which are as follows:—

Per Case of 25 large bottles,	<b>22/6</b>	.....	Per dozen,	<b>12/-</b>
„ „ 50 small „	<b>35/-</b>	.....	„ „	<b>10/-</b>
„ „ 25 large „	<b>21/-</b>	} Per 10-case lots.		
„ „ 50 small „	<b>32/-</b>			

For net cash.

London Agency—TRAFALGAR BUILDINGS, CHARING CROSS, W.C.



ESTABLISHED HALF A CENTURY.  
PRIZE MEDALS AWARDED AT ALL THE EXHIBITIONS.

SUPPORT ENGLISH MANUFACTURE.

## EUGENE GÉRAUT & CO.'S LATEST NEW PATENT SELTZOGENE

The Best Seltzogene Extant & Warranted.  
Wear and Working Guaranteed. No more  
Screwing required. Tap cannot get corroded.

### GREAT REDUCTION IN PRICE.

Patent Wire.	Cane.
3-Pint..11/-	12/-
5-Pint..14/9	15/9
8-Pint..22/6	25/-

Large Discounts allowed  
off for quantities.

**SELTZOGENES & SYPHONS.**

## SYPHONS.

Best English Block Tin Tops  
and Ebonite Fittings, from  
18/- per dozen.

HEADS of guaranteed quality.

VASES—Best Crystal and  
Colours.

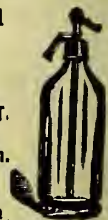
PRICES ON APPLICATION.

CONTRACTORS TO HER MAJESTY'S GOVERNMENT.

The Premier Manufacturers in the United Kingdom.

SOLE ADDRESS—

139 & 141 FARRINGDON RD., LONDON, E.C.



**"A CAPITAL IDEA"!!**  
Said friend JONES, the GO-AHEAD CHEMIST. "I'VE DOUBLED  
MY TRADE last year since I commenced packing all my  
customers' prescriptions in Glover's small wood  
boxes."  
And JONES CHUCKLED!!

**WOODEN BOXES**  
ALL SIZES  
MADE TO ORDER

TRADE MARK

PRICE 16/-  
per doz. nests of 6  
Boxes, planed and hinged,  
from 5" x 2 1/2" x 1 1/2" to  
9 1/2" x 6 1/2" x 4 1/2". Nests of 6 for Bottles,  
4 oz. to 16 oz., at same price. Single nest, 1/6.  
Special Terms for Large Quantities to Ship etc.

**"CAPITAL, INDEED"!!!**  
Said the Colonial Shipper. "Those light nested  
boxes, shipped in cases (each containing 1/- gross nests),  
are just what is wanted, and I am getting repeat orders  
doubled. We are all indebted to the Makers,  
Messrs. C. H. GLOVER & CO., London Boxworks and Sawmills,  
HATCHAM, LONDON, S.E."!!

WANTED: SPECIAL CHEMIST AGENTS  
FOR THE SALE OF

## VITÆ-ORE

### Nature's Great Mineral Remedy.

V-O is not a patent medicine, but a pure natural product, partially  
soluble, and forming a very beneficial Chalybeate Mineral Water. A full  
Analysis by leading firm of London analysts given on each bottle.

Sold at full face value, and, to prevent cutting, not supplied to any  
Wholesale house or cutting Drug Co., but only direct to Chemist Agents,  
who are supplied with pamphlets with their name and address printed on,  
free of charge. Liberal terms.

We have already appointed 400 Agents in England, and shall be glad to  
hear from any Qualified Chemist willing to take the Agency in town,  
where we are not represented.

VITÆ-ORE CO., Ltd., 39 Temple Chambers, LONDON, E.C.

V-O is sold in Bottles at 2/9 and 4/6.



# Kronthal

## WATERS.

**Absolutely Natural! Every bottle filled at the Kronthal Springs.**

**Sole Importers—SCHWEPPE'S LTD.**

Messrs. SCHWEPPE'S LTD. have pleasure in notifying the general public that they have secured the **SOLE AGENCY** for the importation of Kronthal Waters into the United Kingdom. After full enquiry and numerous experiments, Messrs. SCHWEPPE'S LTD. are of the opinion that the Kronthal Natural Mineral Waters are unsurpassed by any other Waters imported, for use as follows, viz. :—

# Kronthal

# Kronthal

# Kronthal

### BLUE LABEL.

*A Delicious Table Water.*

May be drunk plain, and especially adapted for blending with WINES and SPIRITS, LEMON SQUASHES, FRUIT ESSENCES, CHAMPAGNE and other Cups.

### RED LABEL.

*A most Palatable, Highly Mineralised Water.*

**Most valuable in cases of Gout and Stone.**

**Effects the Elimination of Uric Acid from the Blood.** Laboratory experiments prove that Kronthal (Red Label) is a distinct solvent of Uric Acid and Gouty deposit.

**KRONTHAL (Red Label) DISSOLVES SIX TIMES AS MUCH URIC ACID as pure Distilled Water.**

**RED LABEL ACTS AS A VERY MILD APERIENT.**

### GREEN LABEL.

*An Exceptional Iron Water.*

**Invaluable in Cases of Anæmia and Chlorosis.**

**Contains Iron in a very valuable, because easily assimilable form.**

**Its administration secures the same improvement in bloodless conditions as the well-known Bland Pill, used so largely by the Medical Profession.**

THE LANCET says :—"Our analysis established the purity of these Waters."

*For Price List and Particulars apply to THE SOLE IMPORTERS—*

## SCHWEPPE'S Ltd., LONDON, W.

Export Enquiries—KRONTHAL COMPANY, Ltd., 53, Berners Street, London, W.



# ROBINSON'S ORIGINAL CONCENTRATED WATERS.

ESTABLISHED 1855.

When diluted in the proportion of one part to forty parts of water at 60° temperature, they faithfully represent the Medicated Waters of the British Pharmacopœia. They are always of uniform strength, and will keep good any length of time in any climate.

Aqua Amygd. Amar. Conc. (U.S.) ..	4/- per lb.	Aqua Cassiæ Conc. .. ..	4/- per lb.	Aqua Menth. Virid. Conc. ..	4/- per lb.
" Anethi, Concent. .. ..	4/- "	" Flor. Aurant. .. ..	8/6 "	" Pimentæ .. ..	4/- "
" Anisi .. ..	4/- "	" Sambuci Cono. .. ..	8/6 "	" Pulegi .. ..	4/- "
" Camphoræ .. ..	4/- "	" Fœniculi Conc. .. ..	4/- "	" Rosmarini .. ..	4/- "
" Carui .. ..	4/- "	" Menth. Pip. Conc. .. ..	4/- "	" Rosæ .. ..	8/6 "
" Cinnam. Ver. Conc. .. ..	6/- "	" Ang. Conc. .. ..	8/- "	" Virgin .. ..	10/6 "

The above may be had in ½-lb. or 1-lb. Bottles and upwards, through most of the Wholesale Drug Houses.

Each Bottle has the Inventor's Protection Label over the cork, without which none are genuine.

## SUPERIOR ORANGE WINE (Vin. Aurantii, B.P.)

Samples of any of the above sent free on application from

B. ROBINSON, Distiller and Brewer of British Wines, Church Street, PENDLETON, MANCHESTER.

Outer Gates of South Lambeth Works.



ESTABLISHED 1730.

## BEAUFOY'S EXTRACT of MEAT and MALT WINE

(Guaranteed Prepared from Liebig's  
Extract of Meat).

ORANGE WINE, COCA WINE,  
AND  
QUININE WINE.

Samples and Prices on application with Trade  
Card. [1]

BEAUFOY & CO., SOUTH LAMBETH, LONDON, S.W.



## BURROUGH'S "RED CROSS BRAND" COCA WINE.

GALE STREET DISTILLERY  
CHELSEA,  
LONDON, S.W.

WRITE FOR PRICES AND SAMPLES.

Dr. A. B. GRIFFITHS says, "Second to none in the market."—Aug. 24, 1896.

Also S.V.R. & S.V.M.  
At Lowest Prices. [3]

A. MILLAR & CO., LTD., DUBLIN.

## PURE ORANGE WINE

(VINUM AURANTII, B.P.) prepared in strict accordance with the Formula of the British Pharmacopœia.



# NATURAL MINERAL WATERS.

PACKING  
FREE.

## INGRAM & ROYLE LTD.

CARRIAGE  
PAID.

LONDON—EAST PAUL'S WHARF, 26 UPPER THAMES ST.

### HUNYADI-JANOS

LIVERPOOL :  
19 South John  
Street.

BRISTOL :  
Bath Bridge.

### VICHY

NAME	Per Dozen		Original Packages				NAME	Per Dozen		Original Packages			
	Bots.	½ Bots	Bottles	½ Bottles	½ Bottles	½ Bottles		Bots.	½ Bots	Bottles	½ Bottles	½ Bottles	½ Bottles
Æsculap ... ..	15/-	12/-	25	30/-	50	50/-	Pitkeathly (not carriage paid)	—	3/6	—	—	—	—
Apollinaris ... ..	6/-	5/-	50	23/-	100	36/-	Pullna ... ..	12/-	8/-	40	36/-	40	25/-
Bourboule (La) ... ..	11/-	—	50	42/-	—	—	Reginaris ... ..	5/6	4/6	50	21/-	50	17/-
Carlsbad ... ..	12/-	—	50	46/-	—	—	Roisdorf ... ..	5/6	4/6	50	22/-	100	35/-
Condal ... ..	—	14/-	—	—	50	56/-	Rosbach ... ..	5/6	4/-	50	20/-	100	32/-
Contrexeville ... ..	9/-	—	50	35/-	—	—	Royat ... ..	9/-	—	50	34/-	—	—
Flitwick ... ..	24/-	15/-	—	—	—	—	Rubinat ... ..	15/-	8/-	25	30/-	100	60/-
Franz-Josef ... ..	12/-	10/-	25	22/6	50	35/-	St. Galmier ... ..	6/-	4/6	50	22/-	100	34/-
Friedrichshall ... ..	12/6	10/-	25	25/-	50	40/-	St. Marco ... ..	11/-	—	50	42/-	—	—
Gerolstein ... ..	5/-	4/-	50	20/-	50	16/-	Salutaris (not carriage paid)	4/-	2/6	—	—	—	—
HUNYADI-JÁNOS ... ..	12/-	10/-	25	22/6	50	35/-	Selters... ..	6/-	4/6	50	24/-	50	17/-
Johannis ... ..	5/6	4/-	50	20/-	100	32/-	Vals ... ..	8/6	—	50	33/-	—	—
Kronenquelle ... ..	9/-	—	50	36/-	—	—	VICHY (State Springs), "Celestins," "Hôpital," "Grande-Grille," &c. ...	8/6	6/6	50	33/-	50	25/-
Levico ... ..	—	18/-	—	—	—	—							
Oberbrunnen ... ..	8/6	—	50	35/-	—	—							

DISCOUNT ALLOWED ON LONDON ORDERS. DETAILED PRICE LIST & PAMPHLET ON APPLICATION.

## RUBINO

### HEALING SPRINGS

### NATURAL

### LITHIA WATER.



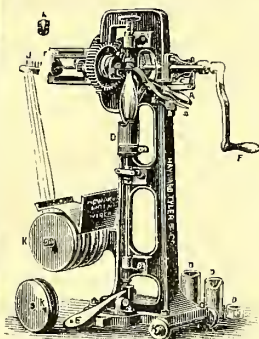
A PERFECT TABLE AND MEDICINAL WATER.

AGENTS FOR GREAT BRITAIN—

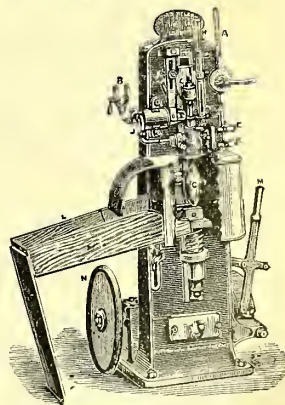
### MOORE & CO.

45 Craven Road, Lancaster Gate, W.,  
and 15 Pall Mall, S.W.

## HAYWARD-TYLER & CO.



HOWARD'S PATENT  
WIRING MACHINE.



HAYES MACDONELL  
BOTTLING MACHINE.

## LABOR-SAVING MACHINERY.

90-92 Whitecross Street, London.



# TWO \* GOOD \* LINES.

PROTECTED PROFITS 30 PER CENT.

				MINIMUM SELLING PRICE.	
HALL'S WINE, PER CASE (1 doz.)	...	27/-	...	3/-	Per Bottle.
" " " (2 doz.)	...	31/-	...	1/9	"
KEYSTONE BEEF WINE—The ONLY Wine Prepared with The Liebig Co.'s Extract.					
" " " PER CASE (1 doz.)	...	30/-	...	3/3	Per Bottle,
" " " (2 doz.)	...	34/-	...	2/-	"

*Both these Preparations are well Advertised.*

## ATTRACTIVE WINDOW DISPLAYS

SENT FREE AND CARRIAGE PAID.

Handbills, Pamphlets, and other printed matter, with own name and address.

Also ARTISTIC SHOWBOARDS and DUMMIES FREE, on application to Proprietors—

### STEPHEN SMITH & CO., LTD., BOW, LONDON, E.

## St. Raphaël Quinquina.

THE MOST WONDERFUL TONIC WINE  
IN THE WORLD.



The ST. RAPHAËL QUINQUINA has the largest sale of any similar Wine in France. For Loss of Appetite, Anæmic Conditions, and Nervous Depression, it is the most wonderful Tonic Wine ever submitted. Apart from its marvellous restorative properties, it is also a pleasant and agreeable Wine, and can be used as a beverage with Mineral Water.

*Show Cards, Handbills, and all Advertising Matter supplied free.*

SOLE AGENTS:

**BOWEN & MCKECHNIE,**  
Gross Street, FINSBURY, E.C.

## PROOF *not Spirit* but WINE.

It cannot be disputed that we have taken  
out and paid for

**MORE LICENSES**

at Somerset House, for the past six months,  
than any other firm in the Trade.

*Can we be of service to you?*

A postcard will fetch our Price List and full particulars.

### HOLLOWAY'S WINE CO., LTD.

61 New Oxford St., & Dyott St., LONDON, W.C.



EIGHT PRIZE MEDALS AWARDED.

# GOODALL'S HOUSEHOLD SPECIALITIES.

## YORKSHIRE RELISH.

Most Delicious Sauce in the World. Bottles, 6d., 1s., and 2s. each.

## GOODALL'S BAKING POWDER.

The Best in the World. 1d. Packets; 6d., 1s., 2s., and 5s. Tins.

## GOODALL'S EGG POWDER.

One 6d. Tin is equal to 25 Eggs. In 1d. Packets; 6d., 1s., and 5s. Tins.

## GOODALL'S CUSTARD POWDER.

Delicious Custards without Eggs. In Boxes, 2d., 6d., and 1s. each.

## GOODALL'S BLANCMANGE POWDER.

Delicious Blancmange in a few minutes. Boxes, 6d. and 1s. each.

## GOODALL'S LAVENDER WATER.

A Rich and Lasting Perfume. Bottles, 1s., 2s., and 5s. each.

## GOODALL'S PLATE POWDER.

For Polishing and Cleaning all Metals. Boxes, 6d. and 1s. each.

## GOODALL'S JELLY SQUARES.

Make a Delicious and Nutritious Jelly. In  $\frac{1}{2}$ -pint, 1-pint, and quart boxes, 3d., 6d., and 1s. each.

PROPRIETORS—GOODALL, BACKHOUSE &amp; CO., LEEDS.

## GOODALL, BACKHOUSE & CO., LEEDS,

ANALYTICAL AND MANUFACTURING CHEMISTS;

WHOLESALE &amp; EXPORT DRUGGISTS;

DRUG AND SPICE GRINDERS; DRY-SALTERS' OIL AND COLOUR MEN;

PATENT AND PROPRIETARY MEDICINE DEALERS;

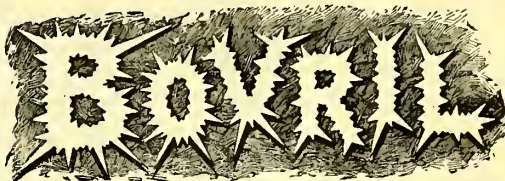
DRUGGISTS', GROCERS', AND ITALIAN WAREHOUSEMEN'S SUNDRIES;

TIN CANISTER AND CARDBOARD BOX MAKERS;

IMPORTERS OF OLIVE OILS, ESSENCE OF LEMON, &amp;c.

For prices and terms of above see Monthly Price Current.  
Special net cash prices quoted for wholesale quantities.  
Arrangements made for packing goods with customer's name  
when quantities are required.

TO STOCK IT IS TO SELL IT.



Chemists not yet fully stocked will learn with interest that the advertising of Bovril during the winter months will be conducted on very extensive lines, and a greatly increased business should naturally ensue.

BOVRIL LIMITED FOOD SPECIALISTS & HOSPITAL PURVEYORS LONDON

## CHEMISTS

Who stock "FRAME FOOD" DIET and "FRAME FOOD" JELLY, but obtain their supplies through the Wholesale Houses, are requested to send their address to the FRAME FOOD Co. (LTD.) for insertion in the Company's List of Retailers.

The FRAME FOOD Co. will then refer applicants for free samples (many thousands of which applications they receive) to such retailers for further supplies of F. F. Diet or Jelly.

SHOWCARDS, and Leaflets with Retailer's Address printed in red, sent free on application.

*Mention this Paper.*



BATTERSEA, LONDON, S.W.



# PHARMACEUTICAL SUGAR.

GUARANTEED PURE CANE GRANULATED SUCROSE, ENTIRELY FREE FROM BLUE.

Macfies



Sugar.

"A Pure Granulated Sugar entirely free from colouring matter, specially adapted for making syrups and other preparations."

—PHARMACEUTICAL  
JOURNAL.

"We have recently examined it, and have formed a high opinion of its suitability for Pharmaceutical purposes."

—THE CHEMIST  
AND DRUGGIST.

**MACFIE & SONS, LIVERPOOL.**

SOLE WHOLESALE AGENTS FOR CHEMISTS AND DRUGGISTS—

EVANS, SONS & CO., 56 Hanover Street, LIVERPOOL. EVANS, LESCHER & WEBB, 60 Bartholomew Close, LONDON, E.C.  
EVANS & SONS (LIMITED), MONTREAL.

## Seasonable Lines.

**MASON'S  
WINE \* ESSENCES**

IN ALL FRUIT FLAVOURS.

A Sixpenny Bottle makes a gallon of Delicious Wine—Non-alcoholic.

**MASON'S  
COFFEE ESSENCE.**

THE BEST MADE.

**28 GOLD MEDALS.**

**NEWBALL & MASON, NOTTINGHAM**



# ARMOUR'S PEPSINS

are guaranteed to  
fully answer the  
test claimed, so that positive reliance may be placed upon an exact  
correspondence between a label, and the package to which it refers.

**Pepsin 2,500 B.P. 1898 (Powder, Granular and Scale)**

**Pepsin 3,000 U S.P. (    „                    „                    „    )**

**Pepsin 5,000 Dbl. B.P. (    „                    „                    „    )**

SAMPLES & DESCRIPTIVE MATTER WILL BE FORWARDED FREE ON APPLICATION TO

**ARMOUR & COMPANY (Chicago, LONDON, E.C.)**

Chemists will be interested in knowing that our well-known

## “Snowdrift” Petroleum Jellies

conform to the requirements of the 1898 B.P. All our pre-  
parations are of uniform high quality, and give the most  
unqualified satisfaction wherever they are used. Samples will  
be sent if requested.

Telegrams—“Snowdrift, London.”  
Telephone No. 127, Eastern.

A.B.C. Code used.  
4th Edition.

**SNOWDON, SONS & CO., Ltd.**  
Millwall, London, E.



PERFECTLY PURE BUT NOT INSIPID.

The "LANCET"

AND



The "LANCET" says:

"Vi-Cocoa must be assigned a place in the front rank of really valuable foods, since it is the embodiment of all the numerous principles contained in Malt, Hops, Kola, and Cocoa."

THE

"BRITISH MEDICAL JOURNAL"

AND



The "BRITISH MEDICAL JOURNAL" says:

"Vi-Cocoa is a very palatable beverage of great stimulating and sustaining properties."

The "MEDICAL MAGAZINE"

AND



The "MEDICAL MAGAZINE" says:

"Medical practitioners will find a valuable weapon in Dr. Tibbles' Vi-Cocoa in combating the various conditions of nervous exhaustion and enfeebled digestion. The ingredients of which it is composed are carefully selected, and of undoubted purity and strength."

An ANALYST

AND



From MATTHEW A. ADAMS, F.R.C.S., F.I.C., F.C.S.,  
Trinity House, Maidstone; Public Analyst in the County of  
Kent, and Past President of Society of Public Analysts.

"In my opinion Vi-Cocoa is a happy combination,  
enhancing the food value of ordinary Cocos."

van Houten's Cocoa

Report by OTTO HEHNER, Esq., F.I.C., F.C.S.:—"Pure and genuine."  
"Method of manufacture in every way superior."  
"Great strength and digestibility."



Prepared under  
MEDICAL  
INSTRUCTION  
from  
Purest Cocoa,  
Kola Nut, Malt,  
and the  
Ferruginous  
or Iron-bearing  
Elements of  
Food.

A DELICIOUS, REFRESHING, AND SUSTAINING BEVERAGE.

Owing to the Ferruginous Elements contained in it, Ferru-Cocoa largely assists to the formation of Hæmoglobin, or red colouring matter in the Blood, thereby being of the greatest value to children and invalids in aiding to build up a sound, healthy constitution.

FERRU-COCOA is Muscle-forming, Force-producing, and Enriches the Blood.

The *Lancet* says:—"Normally Cocoa contains NO Iron, and its addition in an organic form in the preparation before us (FERRU-COCOA) is a step of some importance." The *Hospital* says:—"FERRU-COCOA is a preparation of Cocoa from which a large proportion of the natural fat of the Cocoa bean has been removed, thereby rendering the preparation more digestible. For all who require a larger amount of ferruginous material than is provided in ordinary articles of diet, this preparation is likely to be useful."

Strongly recommended by the highest medical experts and analysts as the most valuable Blood-forming and Blood-enriching FOOD BEVERAGE known.

Packed in 6d., 3d., and 1/6 Tins of all Chemists and Grocers.

FREE SAMPLES sent to Trained Nurses and Medical Men on application.  
FERRU-COCOA MANUFACTURING CO., 329 Goswell Road, London, E.

Proved Products of 170 years' reputation.

**FRY'S**  
**COCOAS & CHOCOLATES.**

Price Lists, &c., on application.

TELEGRAPHIC ADDRESSES—

"FRY, BRISTOL." "FRYSON, LONDON."

250 GOLD MEDALS AND DIPLOMAS.





## WHY CHEMISTS PUSH MUNYON'S REMEDIES.

*The Greatest Sellers on the Patent List.*

Because they Cure their Customers.

Because the Prices are Protected.

Because they yield 33 $\frac{1}{3}$  per cent. Profit.

Because the Munyon Company are Enterprising Advertisers, and are always ready to help the Retail Trade to increase Sales.

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Mr. WALTER BIGNOID, a well-known Chemist of Battersea, doing business at 45 Falcon Road, writes:—"Since I have had a display in my windows of your Remedies and Cases I am pleased to inform you I have had an immense sale—so much so that I should be glad if your representative would give me a call, that I may arrange for a further exhibition. In the meantime, kindly forward me a further supply of your Guides, Tablets, or any literature you may have."

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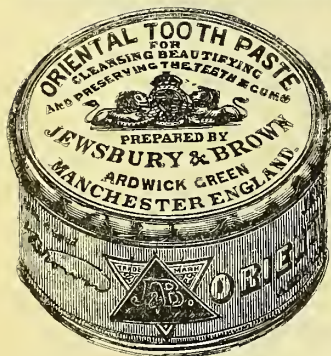
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[7]



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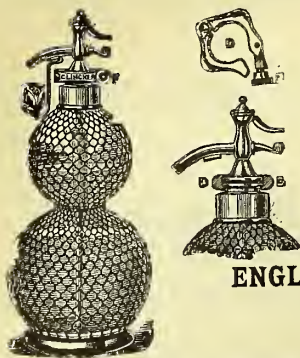
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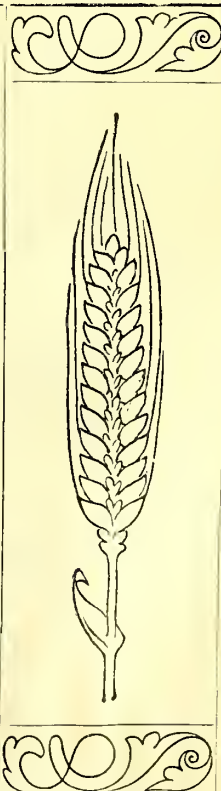
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|--------|-------------|--------------|--------------|---------------|---------------|
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| Yellow | 5/- "       | 11/8 "       | 21/6 "       | 45/6 per cwt. | 40/- per cwt. |
| Red    | 3/6 "       | 8/- "        | 13/4 "       | 28/- "        | 24/6 "        |

**SECOND QUALITY.**

|        | 10-lb. tin  | 25-lb. tin   | 50-lb. tin   | Half-Bbls.    | Bbls.         |
|--------|-------------|--------------|--------------|---------------|---------------|
| White  | 7/- per tin | 15/- per tin | 27/6 per tin | 58/- per cwt. | 52/6 per cwt. |
| Yellow | 3/3 "       | 7/3 "        | 13/4 "       | 24/6 "        | 21/6 "        |
| Red    | 2/3 "       | 5/- "        | 9 - "        | 19 6 "        | 16/9 "        |

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**SEVENTEENTH EDITION**

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Pharmaceutical Society of Ireland.  
Chemists' and Druggists' Society of Ireland.  
Irish Pharmaceutical Assistants' Association.  
Pharmaceutical Society of Cape Colony.  
South African Pharmaceutical Association.  
Pharmaceutical Society of Natal.  
Pharmaceutical Society of the South African Republic.  
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Pharmaceutical Society of N.S. Wales.  
Pharmaceutical Society of Queensland.  
Pharmaceutical Society of South Australia.  
Pharmaceutical Society of Tasmania.  
Pharmaceutical Society of Western Australia.

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## MERCHANT SHIPPERS' NUMBER.

THIS important issue of THE CHEMIST AND DRUGGIST will be published on March 11, and copies will be sent to every shipper of druggists' goods in the United Kingdom. Merchants often have great difficulty in discovering the makers of goods on their foreign indents, and the object of this special circulation is to facilitate communication between the manufacturer and the exporter. Full details will be given by the Publisher, 42 Cannon Street, London, E.C.

## Summary.

THE VICTORIA POISONS BILL has been dropped (p. 241.) BENZIN is suggested as a gas-enricher by Mr. W. Irwin (p. 245).

SOME DISPENSING-DIFFICULTIES are explained by Mr. Harold Wyatt on p. 245.

MR. JOHN MORGAN RICHARDS is the subject of *Moonshine's* portrait this week (p. 242).

THE SHIPPING-RING ARRANGEMENTS which affect colonial trade are explained on p. 256.

BELLADONNA-PLASTER ANALYSIS is discussed by a manufacturer's agent in a letter on p. 284.

THE "PENNY-TRAITOR" advertising device was explained during a county-court case reported on p. 260.

THE DRUG-BUSINESS IN LONDON is phenomenally brisk just now, according to the arrivals of drugs (p. 268).

PARLIAMENT reassembled on Tuesday. The Government again announced Company and Adulteration Bills (p. 252).

THE FIRST MONTH'S TRADE of the year is shown by the Board of Trade Returns to be distinctly better (p. 268).

THE new B.P. has again been maintained in regard to the sale of camphorated oil not so strong as lin. camph. (p. 259).

IN the action for the recovery of commission for the sale of a business, judgment has been given for the agent (p. 258).

STARCH-DIGESTION AND NITROGEN IODIDE were the principal topics at the Chemical Society meeting last week (p. 245).

PROVINCIAL ASSOCIATIONS are taking up the discussion of the Pharmacy Bill at the solicitation of the Federation (p. 248).

AUSTRALIAN FEDERATION has now been agreed to, and in this connection we give thumb-nail portraits of six Premiers (p. 241).

WE print a number of letters regarding the Pharmacy Bill, which are generally condemnatory of the abolition of the widows' clause (p. 263).

A SOUTH LONDON CHEMIST has had to pay damages to an actor for supplying carbolated vaseline containing an excess of carbolic acid (p. 260).

A "CHEMIST-OPTICIAN" contributes some optical notes and "Pharmaceutical Camerist" continues his practical photographic notes, on p. 262.

THE PHARMACEUTICAL COUNCIL ELECTION is likely to be brisk, but there is need, we say, for declarations of policy by new candidates (p. 255).

AT the meeting of the Society of Chemical Industry, on Monday evening, papers were read on "Sumach" and "Amyl Nitrite," which included the best tests for these materials (p. 244).

THE DIVISION OF THE MINOR EXAMINATION was the subject of a discussion by Sheffield chemists on Wednesday. They ask the Pharmaceutical Council to expedite the matter (p. 249).

THE QUESTION of dispensing in doctors' surgeries is receiving growing attention, and something important may come out of it if chemists generally keep writing to the Privy Council (p. 248).

CORRESPONDENTS on p. 265 tell why they disapprove of Messrs. Cross & Co.'s suggestion about employing assistants from stores or giving references to any of their assistants who go to stores.

CAMPHOR AND QUININE have been officially advanced in price, and further advances are expected. Business in Mincing Lane is, on the whole, excellent, and the tone is less excited this week (p. 268).

THE President of the Pharmaceutical Society of Ireland has addressed a letter to the President of the Pharmaceutical Society of Great Britain, regretting that the British Society does not co-operate with the Irish in regard to company matters (p. 263).



## English News.

*Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.*

### Bone Brush Makers' Strike.

The Master Bone Brush Makers' Association, in order to terminate the strike, which has lasted for six months, have conceded to the men an advance of 3*d.* a gross on tooth-brush-fashioning. The men wanted 1*s.* a gross.

#### Store-prices.

The following are noted as alterations in the price-list of the Civil Service Supply Association:—

REDUCED.—Lundborg's Edenia perfume, from 3*s.* to 2*s.* 9*d.* per bottle; Tonquin beans, from 8½*d.* to 6*d.* per oz.

ADVANCED.—Edgar's croup-lotion, from 2*s.* to 2*s.* 4*d.* per bottle; cuticura resolvent, from 4*s.* to 4*s.* 4*d.*; Mellin's food, from 1*s.* 9*d.* to 1*s.* 9½*d.*; Dinneford's fluid magnesia, from 8*d.* and 1*s.* 7*d.* to 10*d.* and 1*s.* 11*d.*

ADDED.—Instra warmers in German silver, with 50 refills and holder, 7*s.* 6*d.*; 50 extra refills with holder, 1*s.* 4½*d.*

### Promoting Growth by Electricity.

At a lecture given on February 3 to the Amateur Horticulturist Society Dr. E. H. Cook, F.I.C., F.C.S., of the Clifton Laboratory, Bristol, described some remarkably successful experiments which he had made in forcing plants by electricity. Dr. Cook further stated that he was prepared to submit to the action of electricity the seeds of any plants which might be sent to him, the conditions being that the sender should pay the postage both ways and that he should agree to plant the electrified seeds under the same conditions as an equal number of non-electrified ones; also at the conclusion of the growth a report should be sent stating the results of the experiment. Dr. Cook will be remembered as the author of a paper on the "Action of Electricity on Plants," which was read at the last meeting of the British Association.

### The Strychnine-on-Toast Case.

At the Essex Assizes on February 6 Elizabeth Walford was indicted for administering strychnine to her mistress, the wife of Mr. John Marlar, chemist, Halstead. Mrs. Marlar had occasion to complain of the prisoner sending letters to a young man, and the prisoner on the following morning took up a cup of tea and some toast to her mistress in the bedroom. The mistress noticed that the toast was very bitter, and the poison was afterwards found upon it. The prisoner was sentenced to eight months' hard labour.

### Theft.

Albert Weston (14), errand-boy, was charged with stealing 2*s.* 6*d.* in coppers, belonging to Mr. George Frederick Bartlett, chemist, 38 Battersea Park Road. It appeared that the boy applied to the prosecutor for a situation, and after he had gone 4*l.* was missed from the till. When he came again thirty coppers were placed in the till, and a watch was kept. After the boy had left the shop one of the assistants went after him and searched him, and the money was found in a bag in his pocket. He was then taxed with the previous robbery, and admitted it.

The Magistrate sent prisoner to the workhouse for a week, pending further proceedings.

### "No Work for Men over Thirty."

A paragraph with this heading has been going the rounds of the newspapers stating that Messrs. Brunner, Mond & Co. (Limited) have been discharging elderly men from their Northwich works, and reflecting generally upon the social conditions of the workers. Owing to the operation of the Dingley tariff the alkali-exports have largely diminished, and the firm have suffered equally with others; but, in reducing the staff, they have retained the services of those longest in their employment. The workmen are amongst the best treated in England. No man who has ever served the firm has entered the workhouse; the firm provide free medical attendance for every workman, and each man has a week's holiday yearly, with his wages paid. Pensions are provided for old and faithful service.

### A Lenient Prosecutor.

At Birmingham Police Court on February 3 application was made on behalf of Mr. G. B. Cruickshank, manufacturing chemist, Camden Street, N.W., to be allowed to withdraw a charge of embezzlement against William Barnes. A warrant was issued in 1891, but Barnes absconded, and only recently surrendered himself at the Birmingham Detective Office. Evidence was given that the prisoner had been earning an honest livelihood and was in a good situation. Moreover, whatever was the result of the prosecution, prisoner's employer was prepared to take him back. The Stipendiary thought the case had better go on, and one matter was then gone into, the amount involved being 15*l.* 16*s.* 6*d.* The prisoner, who pleaded guilty, was committed to the sessions, the Stipendiary remarking that the Recorder might take a lenient view of the case.

### Disregarding the Chemist's Advice.

An adjourned inquiry concerning the death of a wire-roller named Jones, at Hadley, near Wellington, was held on February 4. Deceased was engaged at Snedshill Forge, when the wire drawn from the roller caught deceased on the shin and broke the skin. Ointment was obtained from Mr. Price, a Hadley chemist. Dr. Mackie, of Wellington, was afterwards called in, but Jones died on January 24. Evidence of the accident having been given, Mr. W. H. Price, chemist, Hadley, said deceased went to his shop about Christmas, and asked witness to give him something for the wound on his leg. The wound was a small one—about the size of half-a-crown—and he gave deceased some Martindale's ointment to dress it with. He went in to see deceased frequently, being a neighbour, and thought the ointment did the wound good, but deceased continued at his work, and the wound never seemed to heal properly. The leg began to inflame, and witness suggested a week before Jones died that a doctor be called in, and that Jones should remain in bed, but his advice was disregarded. The evidence of Dr. Mackie was to the effect that the injury to the leg was the primary cause of death. A doctor should certainly have been called in, as there was a probability that with scientific treatment the man's life might have been saved. The immediate cause of death was exhaustion, caused by the spreading of gangrene from the wound. He knew the ointment which deceased had used, and it would be the right thing to put in the wound, as it was a healing ointment. Witness could not say the man's life would have been saved if he had been called in before; the case might have ended the same whatever had been done. Deceased was running a risk by going to his work. The jury returned a verdict that death resulted from injuries accidentally received, accelerated by deceased continuing to work, and that no blame attached to anyone.

### Football.

Metropolitan School of Pharmacy F.C. v. South London School of Pharmacy F.C.—Played at Wormholt Farm, Shepherd's Bush, on February 4. Result: Metros., 5; S.L.S.P., 1. Negus (2), Bryan, Johnson, and Barton scored for the winners, and Knowles was the successful kicker for the South London.

## Irish News.

*Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.*

### New Start.

A new medical hall, Walsh's Pharmacy, is about to be opened at Howth, County Dublin.

### Pharmacist-Photographer.

At the annual meeting and exhibition last week of the Dublin Y.M.C.A. Camera Club, Mr. W. J. Wyatt, L.P.S.I. won the silver medal for the best exhibit of landscape photographs.



## Personal.

Mr. Edward M. Hodgson, L.P.S.I. (McMaster, Hodgson & Co., wholesale chemists, Capel Street, Dublin), has been elected a member of the Council of the local Chamber of Commerce.

## Antidotes to "Workman's Poison."

On Saturday evening last, Mr. George D. Beggs, Vice-President of the Pharmaceutical Society, gave a public concert in Dalkey. The programme was in charge of Mr. W. F. Wells, and the performers were for the greater part representatives of pharmacy. Pianoforte selections were given by Messrs. Downes, Wells, Grindley, and Page. Songs were rendered by Messrs. Grindley and Ashe, M.P.S.I. Concerted music was sung by Messrs. Kelly, Grindley, Gilligan, and Wells, and the two last-named gentlemen also contributed duets. Violin solos were given by Miss Sexton. The performance concluded with a selection from the Orpheus quartettes which evoked loud applause. Mr. Beggs is to be congratulated on the success which has attended his efforts. The Dalkey Saturday night popular concerts which he started some time ago as an antidote to the "Workman's poison" have done a great amount of good.

## French News.

(From our Paris Correspondent.)

**THE PARIS 1900 EXHIBITION.**—The last date for application for space in this Exhibition is officially announced as February 15. It is stated that the applications are already five times more numerous than for any previous exhibition in Paris.

**DR. ROUX**, of the Pasteur Institute, has been elected by a large majority a member of the Paris Academy of Sciences, in the section of rural economy. Dr. Roux is only 45 years of age, and is thus one of the youngest members of the French Institute. He is well known for his bacteriological researches, as well as for having been Pasteur's eminent lieutenant.

**A FRIEND IN NEED.**—M. Lassabadie, pharmacien at Puisseguin, Gironde, is a good Samaritan and an excellent sportsman. He has written to inform the French Touring Club that he will be pleased to give gratuitous aid to bicyclists at his pharmacy in case of accident either to themselves or their machines. The club has tendered him a vote of thanks, at the same time sending a plaque to place on the front of the pharmacy indicating that the owner will give "first aid." This reminds me that a pharmacien, whose shop is on one of the most frequented cycling roads out of Paris, where accidents often occur during the summer months, has styled it "Pharmacie des Cyclists." It is not an uncommon thing for him to have ten or a dozen accident cases on a fine Sunday, but, unlike M. Lassabadie, he does not offer his services for repairing bicycles, which, as a matter of fact, being so near Paris, would be unnecessary.

**THE PRICE OF COPPER SULPHATE** was the subject of a question in the Chamber of Deputies on Friday of last week. M. Lasies, the Algerian deputy, complained of the rise in the price of the article, which is indispensable to vine-growers, who use it in conjunction with milk of lime against mildew and black-rot in vines. He asked that measures might be taken to prevent speculation from controlling the price of the sulphate. M. Lebreton, Minister of Justice, replied to the effect that sulphate of copper is not a French product, and that its price is controlled by that of copper. He promised that if the increase in the price of copper could be traced to "culpable manoeuvres" in France, the Government would take steps in the matter. This reply did not satisfy M. Lasies, and the matter was postponed for future discussion, the deputy intending to propose a suspension of the import-duty for six months.

**CHEAP MEDICINE IN COURT.**—The first hearing of the case against the Paris pharmacien who got into trouble last autumn through replacing expensive ingredients indicated in doctor's prescriptions by cheaper ones, was heard last Friday before the Tenth Correctional Chamber at Paris. The

evidence given appears to confirm the statements originally made. M. Villiers, chemist, gave the result of analysis of medicines made up by the defendant, as compared with the original prescriptions. He expressed the opinion that there was occasionally wilful substitution in the ingredients used, and sometimes drugs were entirely omitted from the medicine. The evidence of the pharmacien who discovered the fraud after purchasing the business was also given, as well as that of the laboratory assistant, who explained how he manufactured the more expensive mineral waters sold at the pharmacy by means of a little carbonate of soda or citric acid added to the water from the house-cistern. It is expected that judgment in the case will be given in a week's time.

**WHILE AT MARSEILLES**, a few days ago, I called on the President of the Bouches-du-Rhône pharmacists' syndicate who, by the way, bears the name of a famous French statesman, Jules Simon. We chatted about the prosecution of the benefit societies (*secours mutuels*). They are very numerous in Marseilles, and though their pharmacies are managed by qualified men, the syndicate disputes their right to sell to the general public (of course they can supply their own members and have their own pharmacist, just as they have their own doctor in England). M. Simon admits that the law might be more precisely worded, but holds that the present system is contrary to the spirit, if not the letter, of the law. Anyone who knows how much pharmacists have suffered in Belgium from this abuse will sympathise with the desire of the Marseilles syndicate to obtain a judgment in favour of its illegality in France. In fact, M. Simon goes as far as to say that "la mutualité" will be the death of French pharmacy if a verdict is given against pharmacists and accepted as a precedent. The Bouches-du-Rhône syndicate seems very representative, embracing about 120 out of 150 pharmacists in the department.

**A SEAPORT PHARMACY.**—M. Simon's pharmacy in Marseilles is characteristic in two ways. Firstly, it is a good specimen of the old-fashioned *officine* of Caventou and Pelletier's day—the names of famous chemists and pharmacists round the cornice, busts of Galen, Latin mottoes, &c., specialities in background only, not much window or counter show. Secondly, it is the only ground floor on Quai du Port at Marseilles which is not a tavern or drinking-booth for sailors. This quay is like Wapping or Ratcliff Highway in the olden days. The berths opposite M. Simon's front door are occupied by the Italian coasting-vessels, and he caters specially for Italian sailors, &c., as he speaks their language fluently. Sailors always want something or other at a pharmacy, he says. The Italian sailor perhaps worships Venus more and Bacchus less than the English Jack Tar, but a spree on shore usually ends at the pharmacist's one way or the other. The new Italian-French treaty of commerce will bring a lot more trade to Marseilles.

**NOTES FROM THE RIVIERA.**—A correspondent writes: Business has been quiet this season along the Riviera. The war scare, combined with the mild weather in England, has had its effect in keeping away many English people, but the absentees are not all gone to Egypt this year. The bright dry weather has done much harm to doctors and pharmacists at Nice. One of the latter declared to me "it was a treat to hear anyone cough" this year. It is hoped that the Queen's visit will have an excellent influence, though principally for next season, unfortunately, in reassuring English visitors. Although the cases of typhoid fever at Nice were slightly above the average the statements made on this point in certain newspapers appear to have been much exaggerated. The English chemist and druggist at Nice (Mr. Nicholls) has taken the initiative in closing his establishment during the whole of Sunday. Last September he became sole owner of the prosperous pharmacy. An inscription in French and English to the effect that the establishment is closed on the Sabbath appears on his window-blinds, and his example has been followed by several high-class shops in the same street. Mr. Nicholls says he never expected the French pharmacists to close. He does from conscientious motives, and thinks he can afford it. I notice that a pharmacist, M. Montagné, is giving a series of Tuesday evening lectures on "Popular Hygiene and Common Medicine" at a local educational institution in Nice. Each lesson lasts an hour, and is



illustrated by dissolving-views. A Carnes pharmacist who caters for the English trade confirmed my impression that the season would be below the average. The villa people, he said, had mostly come, but he thought the hotels lacked clients. Of course, he added, much depends on the next six weeks. At Monte Carlo and Mentore the same impression prevailed. At Hyères I learned that the war scare has done harm, and they have had a bad season; at St. Raphael and Valiscure things were slow too. On the Riviera, business people always grumble a little in January, though trade generally picks up later on. But I am convinced that this winter will be a very average season.

## Colonial and Foreign News.

**ST. LOUIS WORLD'S FAIR.**—Delegates from thirteen States met in St. Louis on January 17, and voted to hold a World's Fair in St. Louis in 1903-4.

**SPONGE SALE IN THE BAHAMAS.**—The sale of sponges at the Exchange in Nassau, during the week ending December 17, 1898, brought a total of 6,062*l*.

**FIRE.**—A disastrous fire occurred on January 16 at the premises of Messrs. Charles R. Cowie & Co., chemical manufacturers and general merchants, Rangoon. The loss is estimated at over four lakhs of rupees. The fire was caused by the watchman upsetting a lamp.

**APOLLINARIS IN NEW YORK.**—The *Pharmaceutical Era* quotes the menus of some of the fashionable bills in New York to show that at all the great functions such as the Vanderbilt, the Astor, and other great fashionable dances "Apollinaris" always now figures along with the wines.

**CHANCE FOR A PRIZE.**—The Swiss Society of Chemical Industry offer a prize of 80*l*. for the best treatise which shall help the development of the electro-chemical industry of Switzerland. The treatise must be lodged by May 1, 1900, with Herr Schaeppi, of the Schweizerische Gesellschaft für Chemische Industrie Mitlödi, Switzerland.

**MEDICINAL TABLETS IN GERMANY.**—The Brunswick Government has followed the lead of Prussia by ordering that compressed compound tablets the effects of which the apotheker cannot test are not to be stocked in pharmacies, but must be specially prepared each time they are medically prescribed.

**A NEW PARTNER.**—Mr. Irving McKesson, a son of Mr. John McKesson, has been made a member of the firm of McKesson & Robbins, New York. Mr. I. McKesson was formerly a student at the New York College of Pharmacy, and has since been employed successively in various positions in the establishment of the firm.

**BUSINESS CHANGE.**—Mr. W. Carnegie Gowan, chemist and druggist, who has been in charge of the dispensing branch of Messrs. Cargill & Co., proprietors of the Colombo Medical Hall, Colombo, for about nine years, is leaving Ceylon for England about the middle of the year, with the intention of going into business on his own account.

**FIRE AT J. D. RIEDEL'S CHEMICAL WORKS.**—A fire, the result of spontaneous combustion, broke out at the above works in Berlin on January 27. The flames, which were fed by large quantities of dried plants on the fifth floor, spread rapidly, and the contents of the floor were destroyed, while much damage was caused in other parts of the building by water.

**PROVINCIAL EXHIBITION AT GHENT.**—It has been decided to hold an exhibition at Ghent, dealing with the produce of the different industrial and commercial houses of Belgium. The exhibition will be open from June to September, and will include exhibits of alimentary produce and a hygienic congress. Particulars may be had from the Board of Administration, 47 Boulevard Leopold, Ghent, Belgium.

**EUCALYPTUS OIL IN INDIA.**—Since the outbreak of the plague in India the demand for eucalyptus oil has been steadily increasing, so much so that the factories there have found it impossible to cope with the demand. This has led

to the opening of several small factories, including one at the Tudor Hall Estate, in the neighbourhood of Ootacamund, which is situated in the heart of thousands of acres of eucalyptus forest.

**THE SESAME-CROP.**—An official report from Calcutta on the sesame-crop states that the combined estimate for all provinces gives the area under sesame at 4 per cent. smaller than in 1897-98, but about 16 per cent. above the average of the five preceding years. The cultivation in the Punjab district has increased by 30 per cent. as compared with last year, but the cessation of rains as the crop was ripening will cause the yield to be only 10 per cent. in excess of last year's output.

**THE P.A.O.A.**—The Proprietary Association of America the executive committee of which met in St. Louis in November, is actively pushing its work against the patent-medicine clause in the Pure-food Bills which have been introduced in several States. The Association is being aided by some of the big advertising agencies. Its plan is to work against the Bills in the Legislatures with the assistance of the newspapers of the State. The patent-medicine men object to printing their formula on every package, and say that the purity of their preparation can be guaranteed in other ways.

**"CARLSBAD" AS A TRADE-MARK.**—A Berlin apotheker manufactured and sold a remedy for obesity, under the name "Pralines de Carlsbad." The Carlsbad Corporation brought an action against him for infringement of trade-mark, but the Criminal Court dismissed the case. On appeal this judgment was annulled, and the case referred to the Supreme Court of Appeal, on the ground that the name Carlsbad had not lost its meaning in trade as denoting origin; besides, the law of May 12, 1894, seems to restrict the property in a name to a dealer or producer, and this should have been considered by the Court, because, with respect to the products of Carlsbad springs, the Carlsbad Corporation is virtually a trading body.

## Australasian News.

**A GREAT FIRE** occurred at Alexandra, Victoria, on January 21, which included the destruction of Mr. Wheeler's pharmacy and stores, the loss being 800*l*.

**CYANIDE OF POTASSIUM AND CYANIDE OF SODIUM.**—In an action raised in Melbourne for 112*l*. damages arising from the delivery of cyanide of sodium instead of cyanide of potassium, it transpired that to produce 100 per cent. cyanide of potassium some of the sodium salt was frequently added, as the smaller equivalent of the sodium enabled the proportion of cyanogen to be increased without securing an impossible chemical purity. It was stated that the workmen who have the handling of the cyanide at the mines dislike the sodium salt because it is more powdery, and the dust affects them.

**MR. JOSEPH BOSISTO'S WILL** was filed on December 12. It bequeaths his insignia of C.M.G. and State-sword, the gift of the Queen, also the book and letter, in a glass case, from the Prince of Wales, dated Marlborough House, December, 1878, and the gold medal from the Prince of Wales, upon trust for his nephew, George Joseph Stirling, to devolve upon him as heirlooms. An old family relic, dated 1746, and gold and silver medals, are left to the same nephew. The residue is bequeathed to William Bosisto (brother of the testator), Marla Bosisto, Eliza Bosisto Calton, and Mary Eleanor Guthridge, his nieces, and his nephews, George Joseph Stirling, Robert Andrew Stirling, and James Belton Stirling, in equal shares. The estate is valued at 7,578*l*.

**PATENT-MEDICINE TESTIMONIALS.**—A libel action arising out of the publication of a testimonial regarding Dr. Williams' pink pills is now before the Victorian Courts. The plaintiff is J. H. Owen, and the defendants G. Whitehurst (editor of the *Richmond Australian*) and E. Fulford (representative of the Dr. Williams' Medicine Company). It is alleged that in the paper named was published a so-called "testimonial" from Owen, saying that he had been cured of



certain kidney and liver troubles by the use of these pills. Owen had not authorised this statement, having neither taken the pills nor endured the troubles, and as he considered that it holds him up to ridicule he is seeking redress. Whitehurst's defence, as far as can be learned, is that he accepted the advertisement in all good faith, but that it turned out to be a joke, and not an authorised "ad." of the Williams' Company.

SHARLAND & CO. (LIMITED), AUCKLAND, &C., N.Z., announce important changes in the management. The Auckland office has for some time been under the management of Messrs. Ellis and Sellgren, who have resigned, and are starting business as wholesale chemists and manufacturers in the premises at one time occupied by the New Zealand Drug Company. About eighteen months ago Mr. May, a large shareholder, was appointed managing-director, but he has recently disposed of his shares to some Wellington capitalists, and will retire from the company altogether at the end of the financial year this month. The new directors of the company are Messrs. Martin Kennedy, Charles Pharazzy, and John H. Owen, the last-named to be general manager. The Auckland branch will be managed by Mr. Matthewman, late of the Australian Drug Company, Sydney.

FEDERATION AT LAST.—The proposals for the federation of Australasia have at length arrived at a definite issue. Sir George Turner (Premier of Victoria) has announced that the Conference of the Premiers of New South Wales, Victoria, South Australia, Western Australia, Queensland, and Tasmania has resulted in a satisfactory settlement of all the disputed questions, and he is prepared to recommend the acceptance of the amendments to the Federation Bill to the Victorian electors. Mr. Kingston (Premier of South Australia) also heartily recommends their acceptance to his colony. Sir J.



HON. G. H. REID.



SIR GEORGE TURNER.



HON. J. R. DICKSON.



HON. C. KINGSTON.



SIR J. FORREST.



SIR EDWARD BRADDON.

#### A Group of Australasian Premiers.

Forrest (Premier of Western Australia) declines to promise his support until he has consulted his colleagues, but Sir E. Braddon (Premier of Tasmania) has already received numerous congratulatory telegrams from Tasmania, and has every confidence that a great majority in all the Australasian colonies are favourable to the scheme. The congratulations of her Majesty's Government have been telegraphed by Mr. Chamberlain, and altogether federation may be looked upon as almost a foregone conclusion.

A RESPITE TO POISONOUS PROPRIETARIES.—The Poisons Act Amendment Bill, Victoria, reached the Legislative Council on November 24, in company with a large number of very important measures, so that its only chance was to be passed in silence. After waiting three weeks without being dealt with, all hopes of the Bill had to be given up on December 14, when some amendments by the Hon. F. S. Grimwade were circulated. As these evidently needed explanation, the Leader of the House on the Government side (the Hon. Henry Cuthbert), when the measure was reached, laid it aside. A Bill laid aside in the Legislative Assembly can be reintroduced next session at the stage it had reached. In the Legislative Council there is no such

standing order, and the result is that the Poisons Bill will have to be reintroduced from the beginning. The amendments suggested by Mr. Grimwade were:—Sub-section (a) of section 3 he desired to modify as follows: "When made up or compounded (and sold) as a medicine by a legally qualified medical practitioner or by a registered pharmaceutical chemist, according to the prescription of a legally qualified medical practitioner," the words in black type being added and those in italics omitted. In section 4, sub-section 1, Mr. Grimwade proposed to omit the three sub-divisions printed below:—

(a) Patent or proprietary medicines.

(e) Poisoned seed for the destruction of vermin (within the meaning of the Vermin Destruction Act, 1890);

(f) Packets of poisonous mixtures for the destruction of vermin other than vermin mentioned in paragraph c.

The sub-section would then be read without the words printed in italics.

## South African News.

THE CUSTOMS UNION TARIFF came into operation in British South Africa on January 1.

TRANSVAAL MINERAL-WATER DUTY.—The Executive Council at Pretoria intimated on January 17 that mineral waters used for medical purposes are not to be subject to the 3s. per dozen duty which was recently imposed by Government on aerated and mineral waters imported into the Republic.

DETERMINED TO DIE.—Joshua Buchanan, a chemist's assayer, committed suicide at Bencorrum's Hotel, Durban, on January 13, by taking an overdose of opium. It is stated that on the previous night he asked a lady staying in the hotel to shoot him with a revolver, and that it was taken from him.

TRAVELLERS' TAX.—The 25% tax on travellers in Cape Colony came into operation in 1888, when licences to the value of 1,125% were applied for, and excepting in 1889, when the yield dropped by 100%, the revenue from this source has steadily increased to 5,012% 10s. in 1897, when 161 annual and 79 half-yearly licences were issued.

MR. W. F. H. POCOCK has resigned his position as President of the Colonial Pharmacy Board, as he has decided to reside in England. He has also resigned his connection with the Cape Pharmaceutical Society, which was founded by him a little more than a year ago. In Mr. Pocock the Cape trade loses an energetic and hardworking member whom it can ill afford to do without.

THE B.P. IN SOUTH AFRICA.—In our issue of July 9, 1898, it was reported that the new Pharmacopoeia would come into operation in Cape Colony at the beginning of the present year. No Government notice had been gazetted by the end of December, and our Cape Town representative again called on the authorities for further particulars relative to the date when the 1898 edition would actually become law, and pointed out that a definite date had been given him more than six months ago. As a result of the interview our correspondent writes:—"The facts are as follows: It was the original intention of the Government to proclaim the new B.P. law on and after January 1, 1898. When the time arrived for a *Gazette* notice to appear the question as to whether it was legal or not cropped up; the Colonial Secretary then handed the matter over to the Law Department for advice. This Department expressed an opinion to the effect that it would not be legal to proclaim the 1898 edition effective without parliamentary sanction, as, to make such proclamation legal, a special Act of Parliament was required. Government will, therefore, bring the matter before Parliament for consideration next session; probably well towards the end, when an attempt to rush the Amended Pharmacy Bill through may be expected. The Cape Parliament will meet again about April, and manufacturers and those interested will do well to watch the Bill closely."

THE Rio Grande State Government has appointed various inspectors for the rigorous examination of food and drugs destined for consumption or for exportation to other States.



## Pharmaceutical Society of Ireland.

### COUNCIL MEETING.

THE Council met at 67 Lower Monnt Street, Dublin, on February 1. Present: Mr. R. J. Downes (President), Mr. Beggs (Vice-President), Messrs. Grindley (Treasurer), Kelly, Porter, Sullivan, Wells, Professor Tichborne, and Dr. Walsh.

### THE PHARMACOPŒIA COMMITTEE.

On the motion of Professor TICHBORNE, seconded by Mr. PORTER, the following gentlemen were appointed a committee to consult with the referee (the President) in relation to the publication of the new edition of the British Pharmacopœia:—Messrs. William Allen, George Brown, Charles Evans, Smith, and the following members of council:—Messrs. W. F. Wells, Kelly, Dr. Walsh, J. J. Bernard, and Michie, together with the President and Vice-President (*ex-officio* members).

### THE AMENDED EXAMINATION REGULATIONS.

The REGISTRAR read a letter dated January 4, from the Secretary of the Privy Council, asking whether the three months' course of lectures in botany and materia medica, with a minimum attendance of twenty lectures of one hour each, which is proposed by an amended regulation of the council of the Society, is a reasonable and possible requirement for the other four schools which are recognised by the Society. Mr. Ferrall also read the reply which he had been directed to send to the above letter, and which stated that the course referred to was reasonable and possible for the other schools; that those schools had been recognised on the understanding that the minimum should be maintained; and that that understanding had, as a rule, been loyally carried out.

### ILLEGAL SALES OF POISON.

A letter from Sergeant Thomas Walton, R.I.C., stated that John O'Meara, publican, of Ballinasloe, had been fined 5*l.*, with 2*s.* 6*d.* costs, for selling carbolic acid without being legally qualified to do so. His defence was that carbolic acid had been only a short time in the schedule of poisons, and that he had acted in ignorance of the law. The Sergeant added that he believed the defendant intended to address a memorial to the Lord Lieutenant asking for an abatement of the penalty.

Mr. KELLY: If the fine should be reduced will it impose any expense on the Society?

Mr. GRINDLEY: The costs are covered.

A letter from District Inspector McClelland, of the Royal Irish Constabulary, Longford, forwarded 6*l.* 13*s.* 4*d.*, being two-thirds of fines of 5*l.* each imposed on Joseph Smith, publican, for unlawfully keeping open shop for the sale of poison, and on John Conway, his assistant, for unlawfully selling Steiner's vermin-paste. The letter stated that the defendants had withdrawn their appeals.

### SOUTH LONDON SCHOOL NOT RECOGNISED.

A letter from Mr. T. T. Keany, 202 Camberwell Road, asked the Council to accept a declaration of six months' attendance at lectures in the South London School of Pharmacy.

The PRESIDENT: We cannot do it. We have refused to add to our list of recognised schools.

### DONATIONS

were received from the Smithsonian Institution of copies of their pamphlets, Nos. 1,107, 1,108, 1,109, and 1,113, and from the American Pharmaceutical Association of a copy of their Proceedings for 1898.

On the motion of Mr. WELLS thanks were voted to the donors.

### THE EXAMINATIONS.

The PRESIDENT, referring to the reports of the examiners, mentioned that 6 candidates out of 15 had passed for the licence; that 1 registered druggist had passed and 1 had failed; that 5 assistants presented themselves and all passed; and that at the Preliminary examination 10 passed out of 13.

Other business having been transacted in committee and some ordinary matters of routine disposed of,

The Council adjourned.

## Personalities.

MR. NICHOLSON, chemist and druggist, has been elected a member of the committee of the Tunbridge Wells Chamber of Commerce.

MR. R. S. HAIRSINE, chemist, West Halkin Street, Belgrave Square, has sustained a severe bereavement by the death of his brother, Dr. Hudson Hairsine, of Surbiton, who was thrown from his trap and killed at Richmond on February 4.

DR. R. T. HEWLETT, who is reading a paper on "Antitoxins" before the Chemists' Assistants' Association on February 16, is Bacteriologist to the Jenner Institute of Preventive Medicine, and Demonstrator of Bacteriology at King's College, and his paper will doubtless be well worth hearing.

MR. W. E. GEDDES, the European manager of the Charles A. Vogeler Co., has had a severe attack of congestion of the lungs, which seized him in Christmas week. Mr. Geddes had been working rather hard and was not quite fit before the attack, and, unfortunately, his convalescence has been retarded by a distressing and acute nervous affection, which for a time quite baffled several leading specialists, but is now relieved. In a few days, it is hoped, Mr. Geddes will be strong enough to go to the Riviera.

MR. GEORGE SAMPSON VALENTINE WILLS, of Messrs. Wills & Wootton, of the Westminster College, was born on February 14 fifty years ago, when that date was thought more of than it is at this end of the century. The ruling saint of the 14th probably gave Mr. Wills one of his names. The students of the college have generally had an excursion on the occasion of their principal's birthday, but this year we understand the celebration is to be postponed till July, when our Zadkiel tell us this and three other events of interest to the college will probably be recognised all together.

THIS is a portrait of Mr. John Morgan Richards, for which we are indebted to *Moonshine*. It is the "work of art" which appears on the front cover of our lively contemporary this week. Mr. Richards is well known to the drug-trade as the agent for lactopeptine, Dr. Williams's pink pills, and



many other successful specialities, but to *Moonshine's* reader he is "proprietor of the *Academy* (the paper, not the roarin' forty), and as such a munificent patron of literature. He just discovered only one 'crown' in each of three fifty guinea cheques. Would be easily recognised as an American if he were not such a good Britisher, or as English if he were not such a good American. Father of John Olive Hobbes, and proud of it, as he should be. A good critic, hospitable friend. Will tell you what sort of enemy we learn that he has one. A shrewd man of business whose success no one envies."



## New Companies & Company News.

**INCORPORATED DENTAL HOSPITAL OF IRELAND.**—Registered in Dublin on January 27 with an unlimited number of members, who are each liable for 10s. in the event of winding up. Objects: To lease premises in Lincoln Place, Dublin, and to establish and carry on a Dental Hospital. The management is vested in a Board of Governors.

**LONDON OIL-DEVELOPMENT COMPANY (LIMITED).**—Capital 1,000£, in 1£ shares. Objects: To acquire, own and work any lands, mines, wells, springs, or other properties containing oil, and to carry on the business of oil refiners, distillers, smelters, chemists, druggists, drysalers, oil and colour men, &c. The subscribers (who are clerks, &c.) are to appoint the first directors. Remuneration as the company may decide.

**WARDLAW DETERGENT COMPANY (LIMITED).**—Capital 1,500£, in 1£ shares. Objects: To acquire and carry on the business of manufacturing and selling Wardlaw's Detergent carried on by Sir Henry Wardlaw as "The Wardlaw Detergent Company." The first directors are Edward A. Strauss (merchant, of 49 Grosvenor Square, S.W.), Sir Henry Wardlaw, and Ernest E. W. Ashby (clerk, of 109 St. George's Square, S.W.). Registered office, 39 Friar Street, Blackfriars, S.E.

**RICHARD HOLLICK (LIMITED).**—Capital 2,000£, in 1£ shares. Objects: To acquire and carry on the business of a chemist and druggist now carried on by Richard Hollick at 268 and 317 Burbury Street, Aston Manor, near Birmingham. The first subscribers (each with one share) are:—Richard Hollick, Boldmere Road, Sutton Coldfield, chemist; Philip B. Baker, 96 Anglesey Street, Aston Manor, chemist; Francis Hollick, 317 Burbury Street, Aston Manor, retired; John Mathieson, 27 Salisbury Road, Handsworth, traveller; James Campbell, drysalter, Mrs. Mary E. Campbell, and John M. Fenton, chemist, of 268 Burbury Street, Aston Manor. The first directors are Richard Hollick and James Campbell. Qualification, 50£.

**WOOSTER & CO. (LIMITED).**—Capital 1,500£, in 1£ shares. Objects: To acquire and carry on the business now carried on by Thomas Williams at Southall, Middlesex, as "The Southall Drug Stores." The first subscribers (each with one share) are:—Wm. Wooster, chemist's assistant, and Arthur Cawdron, draper's assistant, of 2 High Street, Southall; Harry Loomes, 36 High Street, Colchester, draper; Frank P. Mason, 58 Lavender Hill, S.W., tea merchant; Frederick C. Orange, 8 Oakford Road, Kentish Town, N.W., traveller; Ruth Cawdron, 154 Westbourne Grove, W., tailor's manageress; Albert Wooster, Longwick, Princes Risborough, butcher. Registered without articles of association. William Wooster is the managing director. Registered office, 2 High Street, Southall.

**WILLIAM PEARCE & SONS (LIMITED).**—Capital 80,000£, in 10£ shares. Objects: To acquire the business of "William Pearce & Sons," to adopt an agreement with William Pearce and James S. Pearce, and to carry on the business of chemists, druggists, drysalers, oil and colour men, importers and manufacturers of and dealers in pharmaceutical, medicinal, chemical, and other preparations, and makers of proprietary articles. The first subscribers (each with one share) are:—Wm. Pearce and James S. Pearce, Bow Common, E., manufacturers; Mrs. Ethel A. Pearce, The Elms, Woodford Green, Essex; John R. Roberts, Woodford Green, gentleman; Mrs. Florence M. Pearce, Clements, Snaresbrook, Essex; Arthur H. Pearce, the Limes, Nonington, Dover, architect; Walter E. Moore, 21 College Hill, E.C., solicitor. William Pearce and James S. Pearce are permanent directors. Qualification, 1,000 shares. Remuneration, 1,000£ each per annum. Registered office, 1 Bow Common Lane, Poplar, London E.

**WINDING-UP OF COMPANIES.**—The following orders have been made:—Celledema (Limited), Annette Road, Holloway (February 2). Aërating Citroid Syndicate (Limited), voluntarily resolved December 29, confirmed January 20. G. H. Kilburn, 10 Union Court, London, liquidator.

**ONE-MAN COMPANIES.**—At the Clerkenwell County Court on February 3, in a case between two companies, Judge Edge, Q.C., remarked that one of the companies had originally only consisted of seven persons, and now was the sole property of one. The sooner the law stopped these "companies" the better.

**BADISCHE ANILIN UND SODA FABRIK.**—A proposal to increase the working capital by 10,000,000m. is to be laid before the next general meeting of the shareholders, as the directorate finds itself short of funds on account of the extension of the buildings and the arrangements for the manufacture of artificial indigo which have required, and will still require large outlays.

**BANNER, SON & CO. (LIMITED).**—This company has just passed resolutions for voluntarily winding up, with Thomas Banner as liquidator. The company was registered on May 2, 1890, with a capital of 1,000£, in 1£ shares, to carry on the business of chemists, druggists, patent-medicine vendors, and dealers in surgical instruments and photographic materials. At the time of making up the last return 357 shares were taken up of which 300 were considered as fully paid, while the other 57£ had been received in full. The principal shareholder is Thomas Banner, gentleman, of 25 Liverpool Road, Southport, with 301 shares. Registered office, 179 London Road, Liverpool.

**LONDON PRODUCE CLEARING-HOUSE (LIMITED).**—The twelfth ordinary general meeting was held on January 30, at Cannon Street Hotel. Dr. Francis J. Johnston presided, and said the Board was able to recommend the highest dividend paid since the company was formed. Their guaranteed contracts to buyers and sellers during the twelve months ended December 31 last represented a total of 47,000,000£, which was a record figure. Wheat and maize had played the most important part in their transactions, and seemed likely to hold that position in the future. The adoption of their system by the wheat trade was not only keeping in London London's own business, which previously went elsewhere, but it was also bringing to London business which never came there before. Of the smallness of their charges they could judge when told that their average commission represented only about one-thirty-sixth of 1 per cent. A dividend of 3s. 6d. per ordinary share and a dividend of 16£ 13s. 4d. per founders' share were afterwards declared.

**BOVRIL (LIMITED).**—The annual meeting of the Bovril shareholders was held on February 3, in the company's new premises, Old Street, City Road, and was largely attended. Mr. J. Lawson Johnston, the original chairman, and who has succeeded the late Lord Playfair as chairman of the company, presided. He paid a warm tribute to the services their late chairman had rendered them, remarking that for many years Lord Playfair co-operated with Baron Liebig in his researches in the chemistry of food, and that he translated the Baron's works into English. In a later part of his speech Mr. Johnston mentioned that it was through the influence of Lord Playfair that the services of Professor Sir Edward Frankland had been secured for the company. With him was now associated as a chemical expert Mr. Harkness, who for forty years had been one of the chief chemists in the Government Laboratory at Somerset House. Their new premises would save them much expense, as their business was hitherto conducted in nine separate buildings in different parts of London. The report and balance-sheet spoke volumes for the vitality of the company's business, especially when it was remembered that they had had peculiar difficulties in the high price of raw material, the long illness of their managing-director, Mr. Andrew Walker (who had, however, now entirely recovered), and the exceptionally mild winter. The purchase of Vimbos was alluded to and the recent establishment of French agencies was mentioned. The Chairman then moved the adoption of the report and accounts, the payment of fixed rates of dividend on the preference and ordinary shares, and the payment of a dividend at the rate of 5 per cent. per annum on the deferred shares. The motion was seconded by Viscount Duncannon, and Dr. Farquharson, M.P., added some remarks in appreciation of the great talents and lofty character of the late Lord Playfair. Viscount Duncannon and Dr. Farquharson were re-elected directors.



## The Winter Session.

### Society of Chemical Industry.

#### LONDON SECTION.

MR. OTTO HEHNER, in taking the chair at the meeting on Monday evening, explained that Mr. Boverton Redwood (the local Chairman) was absent on the Continent, and later would go on to the United States. In his absence Mr. Hehner, as Vice-Chairman, will preside over the meetings, and he asked the indulgence of the members. Mr. HEHNER then submitted to the meeting a sample of the comparatively rare metal

#### TELLURIUM.

He said this was now produced on an industrial scale, being recovered from copper slimes, and at present was about 4s. per lb. He had no doubt that it could be produced cheaper than that provided the demand grew up for it, but even at 4s. per lb. he thought it was remarkable that this comparatively rare metal should be produced in a state of purity at so low a rate. He suggested that some members of the Society, especially metallurgical chemists, should experiment with it, as it was possible that it might be of distinct utility in the compounding of alloys. Tellurium is a very bad conductor of electricity as well as a bad conductor of heat. The small ingot passed round exhibited a greyish metal similar in fracture to star antimony, but not nearly so heavy. Mr. Hehner then called upon Dr. PARKER to read a paper by Messrs. O'Callaghan and Randall on

#### SUMACH AND ITS ADULTERANTS,

when Mr. CROWTHER intervened, asking the Chairman why Mr. Lovibond's paper on "Estimation of Colour in Malt Lignors" was not taken. Mr. HEHNER expressed his surprise, so did the SECRETARY (Mr. Ling), who knew nothing about the paper, whereupon Mr. CROWTHER explained that he had seen it in the January number of the *Journal*. A search was made, amidst considerable merriment, when it was found that the January number for 1899 had not yet been published, and that Mr. Crowther had looked up the number for January, 1898. Dr. PARKER then proceeded to give a digest of his friends' paper. It was first explained that sumach is an important article in the leather trade, but for many years past it has been undergoing a gradual deterioration, and a very large proportion of the ground leaves imported as sumach are not the leaves of *Rhus Coriaria*. The object of the present investigation was to find more satisfactory tests than those previously proposed by Andreas. The chief adulterants of sumach are the leaves of *Pistacia lentiscus* and *Tamarix africana*. The authors had obtained authentic samples of each of these leaves, as well as of the true sumach-leaves from Sicily. In each case 20 grammes of the ground sample was mixed with a litre of water, and the clear macerate was treated, and on the addition of ammonium-chloride solution to the sumach there was no change observed, but with pistacia-leaves a white cloud was formed which gradually subsided as a heavy precipitate, and with tamarix-leaves there was no reaction. Potassium-chromate solution gave no reaction with sumach or pistacia, but a heavy olive-green precipitate with infusion of tamarix-leaves. It was possible, by means of chromate, to detect 2 per cent. of tamarix-leaves in sumach. Oxalic acid was found to give no precipitate with sumach, a slight one with pistacia, and a heavy one with tamarix. Andreas's sulphurous-acid test was found not to be satisfactory. It was noted that pure sumach solution filters clear, but the pistacia one is opalescent. If the sample of sumach on boiling with nitric acid becomes red it may be fairly concluded it is not pure. Out of twenty-five commercial samples only three were found to be pure. The authors added that sumach contains from 28 per cent. to 30 per cent. of tannin, pistacia 15 per cent., and tamarix-leaves 12 per cent. The great advantage of sumach to the tanner is that it gives a beautiful white leather with good body. Sheepskin so tanned is much used for the white linings of silk hats, and it is of the utmost importance to the tanner that the sumach employed should give the white surface with the due amount of softness and body. Pistacia-leaves tan

the skin a yellowish colour, and although the leather tanned with tamarix is fairly white it lacks the body given by the sumach. Finally, attention was called to the fact that the infusion of true sumach-leaves gives a precipitate with a weak solution of formalin. Dr. Parker exhibited all the tests referred to in the paper, which enabled the members to follow the information quite closely.

Mr. HEHNER, in opening the discussion, said that there were five or six plants to which the name sumach was applied, and he wished to know if the test referred to in the paper applied to the whole of these or only one of them. He suggested that the oxalic-acid reaction was obviously a test for lime, which was abundant in many plants, and accumulated as they grew old. He had had considerable experience in the analysis of sumach, and he could corroborate what was said that the quality had been gradually deteriorating.

Mr. MACLEWAN suggested that a more thorough examination should be made of the various leaves, especially to determine the different constituents. He noticed that the pistacia or mastich leaves were quite resinous, and it might be that the resin would be detrimental both in tanning and currying. The tests suggested were really empirical, but with a more thorough analysis a truer estimate of the value might be obtained.

Dr. PARKER, in his reply, said that the remarks in regard to true sumach referred to *Rhus Coriaria*, but they also applied to other species which grew in Sicily, as they were all included under the name of sumach. The tests were only intended to be indicative to tanners of the purity or otherwise of the samples, and were purposely designed to be as simple as possible. In fact, all that they had done was to go round the reagent-shelves in the laboratory, and use each reagent until they found one that gave characteristic tests. (Laughter.) He personally thought the subject deserved publicity, because he had ascertained that sellers of sumach in this country were in the habit of importing the pure sumach and its adulterants, and mixing them in proportions suitable for the price that the tanner made. In this way "sumach" had decreased in value from 14l. to 7l. per ton at the present time, and there was scarcely such a thing as pure sumach to be had. Out of a hundred samples he had examined not 5 per cent. were pure.

The next paper was by Mr. BEADLE, on the

#### USE OF IRON IN PRIMARY BATTERIES.

Many attempts had been made to replace zinc by iron in the electric battery, but hitherto without success, and Mr. Beadle's paper was intended to show the members how that could be obtained. In his absence Mr. CRESSWELL, General Secretary of the Society, read the paper, and this he did with such characteristic solemnity that he kept the meeting amused for the better part of a quarter of an hour. Briefly, the results of Mr. Beadle's investigations go to show that when iron is used as an anode and carbon as the cathode, if the carbon is placed in a neutral solution of ferric chloride and the iron in a solution of ferrous chloride, a higher electrical efficiency is obtained. The iron pole may be covered in several layers of flannel in order to reduce the action somewhat. The drawback to the cell is the accumulation of ferric oxychloride, and this, the subsequent discussion showed, has always been the drawback to iron cells.

Mr. F. R. O'SHAUGHNESSY read the next paper, on

#### COMMERCIAL AMYL ALCOHOL,

which was by Mr. H. Droop Richmond and himself. In the estimation of milk-fat by Gerber's process a chemically-pure amyl alcohol, sp. gr. 0.815-0.818, and b.p. 126°-130° C., is required. The authors found considerable variation in the commercial supplies, and reported upon more than a dozen samples, as well as one obtained from Dr. Gerber such as he uses himself. The authors confirmed generally previous observations regarding the composition of amyl alcohol, or fusel oil, iso and active amyl alcohols being the principal constituents. Dr. Gerber's sample showed the following characteristics:—(a) sp. gr. 0.815; (b) a mixture of 10 c.c. of the sample and 10 c.c. hydrochloric acid required 0.85 c.c. of water to make it turbid; (c) rot. 200 mm. tube, 1.55°; (d) initial boiling-point, 125° C. A small percentage of fat was indicated, and practically nothing distilled below



127.5° C. The figures in regard to the other samples showed that they might be divisible into two groups according to the factors above indicated:—

|                 | (a)       | (b)           | (c)         | (d)      |
|-----------------|-----------|---------------|-------------|----------|
| Lower series... | 8151-8173 | 0.75-1.8 c.c. | -1.8°-2.6°  | 18°-125° |
| Higher series . | 839 -850  | 0.8 -5.3 c.c. | -1.4°-1.90° | 88°-92°  |

The authors entered fully into the composition of the respective samples, and their results, it will be seen, show that commercial amyl alcohol is still variable. Milk-analysts should be careful of the stuff they use, especially as the fat in the alcohol may be reckoned as milk-fat.

Mr. RICHMOND also showed a curve indicating the expansion of mixtures of alcohol and water by heat, after which the meeting adjourned.

#### MANCHESTER SECTION.

THE subject of discussion at the meeting held at the Victoria Hotel on Friday evening last week was the use of

#### BENZIN AS A GAS-ENRICHER.

The paper was by Mr. WILFRED IRWIN, F.C.S., and its title was "The Determination of the Vapour Tensions of the Condensable Hydrocarbons in Coal-gas." Mr. Irwin said that the illuminating-power of coal-gas could be enriched considerably by benzin, the cheapest illuminant at the present time. Carburine still held its own to a certain extent, but he claimed that benzin doubles the illuminating-power of gas at a cost of 6d. per gallon per 1,000 cubic feet. The cost of the apparatus for enriching the gas varied, according to the number of lights intensified, from 5% to 10%, which would be represented by from 50 to 300 burners enriched. It was not likely that benzin would exceed 1s. per gallon, it had been quoted that week at 9d. per gallon. In the course of the discussion which followed Mr. SCUDDER said that in 1886 he was associated with an industry for the carbonization of coal for the purpose of extracting benzin; at that time benzin was 13s. per gallon. Fifteen years ago it was suggested that it should be used as an enricher for coal-gas, and at the Salford Gasworks plant was put down for that purpose. They found that while the results were satisfactory at the works it was not so at a distance. When they got a few miles away the increased illuminating-power was practically valueless. Seventy-five per cent. of the benzin was returned from the syphons in the mains. He did not agree that benzin was of any value as an enricher of coal-gas for distribution.

Dr. GROSSMANN thought Mr. Irwin had brought out the main point. It was not Mr. Irwin's intention to use benzin at gasworks, but at places where gas was to be used.

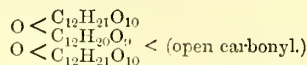
Mr. IRWIN, in reply, said his experience had been the exact opposite of Mr. Scudder's. He did not think there would be any condensation of benzin in the mains except there was such an excess of it used which no one would dream of adding. The deposit would be very small in the pipes. They could enrich 16-candle-power to 30-candle-power, and let it stand as long as they liked, and there would be no deposit. Any deposit would come from enrichment by the use of other hydrocarbons or in combination with benzin. They could also carry benzin any distance they liked. Where Salford had failed was in not using pure benzin, and with having compressed water in the meters.

In the course of the meeting Mr. J. CARTER BELL (Hon. Secretary) announced that the President of the Society, Mr. George Beilby, would dine with the members of the section on Friday, February 24, and they hoped to have 100 or 150 members to meet him on the occasion.

#### Chemical Society.

THERE was a good attendance on Thursday, February 2, when Professor Dewar presided. The chief attractions were papers on maltodextrin and other starch products, and nitrogen iodide. There were series of papers on both topics. Dr. HORACE T. BROWN and Mr. J. H. MILLAR in the first of their papers dealt with maltodextrin, which is one of the intermediate products of starch-digestion with diastase.

This product is difficult to isolate in a pure state, but Brown and Morris in 1885 gave it the formula  $C_{12}H_{22}O_{11}(C_{12}H_{20}O_{10})_2$ . Dr. Brown now shows that two maltodextrinic acids can be prepared from it, and the study of these suggested to him a new arrangement of the maltodextrin molecule—



Speaking of the hydrolysis of the acids, he showed that the A acid is split up into the B acid and glucose, and on further hydrolysis the B acid is split up into the pentose acid ( $C_5H_8O_6$ ) and glucose. After describing some unsuccessful attempts to prepare pure starch-derivatives through their nitrates, Dr. Brown spoke on the stable dextrin of starch-transformations, and its relation to maltodextrin and to soluble starch. It appears that when starch is transformed by an active diastase, such as that of air-dried malt, at temperatures below 60°, the reaction proceeds with great rapidity until a resting stage is reached, at which the products consist of maltose and a dextrin which is resistant to the further action of the diastase. The paper described experiments with this dextrin, which the authors regarded as a  $C_6$  body, having the probable formula  $39C_6H_{10}O_5 \cdot C_6H_{12}O_6$ . Dr. ARMSTRONG, Mr. CROSS, Mr. LING, and others discussed the subject, and after Dr. GERALD T. MOODY had communicated a note on propylbenzene sulphonic acids, Dr. F. D. CHATTAWAY proceeded to give the gist of seven papers by himself and co-workers on the chemistry of nitrogen iodide. They gave its formula as  $N_2H_3I_3$ , and showed that by sunlight it splits up into nitrogen and hydriodic acid, and generally the properties were fully detailed. Dr. Chattaway controverting some of his own previous statements. Dr. ARMSTRONG, opening the discussion, protested against the communications being made into seven instead of one, the only gain by that course being that the author had seven titles instead of one appended to his name in the index. Dr. ALEX. SCOTT, of the Davy-Faraday Laboratory, also spoke, and, after a few words from the PRESIDENT and Dr. CHATTAWAY'S reply, the meeting adjourned.

#### Liverpool Pharmaceutical Students' Society.

THE usual meeting was held on February 2, at the University College, the President (Mr. R. C. Cowley) in the chair.

Mr. HAROLD WYATT, jun., read a series of

#### DISPENSING NOTES,

dealing with the following difficulties which he had encountered during the past year.

|                       |     |     |     |          |
|-----------------------|-----|-----|-----|----------|
| Liq. ferri perchlor.  | ... | ... | ... | 3iij.    |
| Acid. hydrobrom. dil. | ... | ... | ... | 3iij.    |
| Quininae sulphatis    | ... | ... | ... | gr. xij. |
| Tr. gelsemii          | ... | ... | ... | 3iss.    |
| Spt. chlorof.         | ... | ... | ... | 3ij.     |
| Syr. aurantii         | ... | ... | ... | 3ij.     |
| Aque ad               | ... | ... | ... | 3vj.     |

M. Ft. mist.

On mixing the acid and the iron solution a deep-red colour was produced, which, however, disappeared on further dilution. This was judged to be due to ferric bromide, as when shaken with chloroform no indication of free bromine was afforded.

|                    |     |     |     |         |
|--------------------|-----|-----|-----|---------|
| Quininae sulphatis | ... | ... | ... | gr. xx. |
| Acid. sulph. dil.  | ... | ... | ... | 3j.     |
| Tr. chlorof. co.   | ... | ... | ... | 3ij.    |
| Syr. limonis       | ... | ... | ... | 3vj.    |
| Aque ad            | ... | ... | ... | 3vj.    |

Ft. mist.

This mixture invariably has a muddy appearance, and sometimes contains quite a perceptible scum of reddish thread-like particles after standing. The cause of this seems to be the tannin and other astringent bodies from the tincture of cardamoms in the compound tincture of chloroform partially precipitating the quinine. The only way to make it look elegant is to filter, for the small amount of suspended



matter removed, be it quinine tannate or not, need not be considered.

|                        |     |     |     |             |
|------------------------|-----|-----|-----|-------------|
| Potass. bromid.        | ... | ... | ... | 3v. gr. 40  |
| Potass. iodidi         | ... | ... | ... | 5ij. gr. 40 |
| Tr. cannabis indic.    | ... | ... | ... | m160        |
| Syr. aurantii          | ... | ... | ... | 3j.         |
| Mucilaginis tragac. ad | ... | ... | ... | 3viij.      |

M.

3ij. for a dose twice daily.

The quantity of mucilage in this is somewhat abnormal, but, as a concentrated mixture is intended, it was dispensed as written.

|                  |     |     |     |        |
|------------------|-----|-----|-----|--------|
| Tr. benzoin. co. | ... | ... | ... | m320   |
| Oxymellis scillæ | ... | ... | ... | 3j.    |
| Vini ipecac.     | ... | ... | ... | m80    |
| Tr. tolutanæ     | ... | ... | ... | m80    |
| Aquæ destill. ad | ... | ... | ... | 3viij. |

M.

The yolk of an egg, beaten up with 3ss. of water, was put into the bottle, the tinctures poured in, well shaken, and then the rest of the water, with the oxymel last of all.

|                      |     |     |     |      |
|----------------------|-----|-----|-----|------|
| Bismuthi salicylatis | ... | ... | ... | 3j.  |
| Liq. bismuthi        | ... | ... | ... | 5ij. |
| Mucilaginis acaciæ   | ... | ... | ... | 3j.  |
| Spt. chlorof.        | ... | ... | ... | 5j.  |
| Aquæ ad              | ... | ... | ... | 3vj. |

M.

A doctor asked how it was that this mixture was so much more easily made smooth when it contained liq. bismuthi than when the salicylate alone was used. Experiments proved that bismuth salicylate was soluble in ammonium citrate, and that it is quite possible to make a liq. bismuthi salicylatis on similar lines to the liq. bismuthi amm. cit.

|                     |     |     |     |         |
|---------------------|-----|-----|-----|---------|
| Sodii bromidi       | ... | ... | ... | gr. 80  |
| Caffeinæ hydrobrom. | ... | ... | ... | gr. xx. |
| Spt. ammon. co.     | ... | ... | ... | 5ss.    |
| Aquæ ad             | ... | ... | ... | 3viij.  |

The caffeine dissolved in the water, though the sal volatile throws it out of strong solutions. The spirit in the spt. ammon. co. doubtless assists this solubility of caffeine, which in water requires 80 parts to form a solution.

|                     |     |     |     |      |
|---------------------|-----|-----|-----|------|
| Liq. bismuthi       | ... | ... | ... | 3ij. |
| Sodii hyposulphitis | ... | ... | ... | 3ij. |
| Tr. nucis vomicæ    | ... | ... | ... | 3j.  |
| Infusi calumbæ ad   | ... | ... | ... | 3vj. |

Ft. mist.

On mixing, no immediate change was observed, but at the end of a day a brownish-yellow precipitate had fallen, and this gradually became darker and darker day by day until at the end of a month it was almost black. The precipitate is an oxysulphide of bismuth from the interaction of the thiosulphate of sodium and the bismuth citrate, assisted by the organic matters present and by the action of light. It is nothing more or less than the bismuth hair-dye, and will dye animal fibre or wool from a light brown to black, according to the time taken in the process and the amount of light to which the wool is exposed. A similar mixture to this is fully discussed in the "Art of Dispersing."

|                     |     |     |     |      |
|---------------------|-----|-----|-----|------|
| Salol               | ... | ... | ... | 3j.  |
| Nepenthe            | ... | ... | ... | 5ij. |
| Mucilaginis tragac. | ... | ... | ... | q.s. |
| Aquam ad            | ... | ... | ... | 3vj. |

M. Ft. mist.

Salol is by no means easy to reduce to an impalpable powder by simple trituration because of its tendency to adhere to the sides of the mortar and the pestle if of porcelain. For it and for thymol, sulphonal, and other insoluble bodies which exhibit this same tendency I find the following method work out well where it is desired to give the drug in mixture form: Dissolve the salol in methylated ether, and pour this solution on compound powder of tragacanth and lump sugar, grinding hard until the ether has evaporated. Then transfer to a hot mortar and continue the trituration until all smell of ether is removed. To this powder add

water by degrees so as to form an emulsion. Having numerous salol mixtures to make similar to the above, I keep a compound salol powder ready containing 1 part of salol in 3 made with—

|                          |     |     |     |    |
|--------------------------|-----|-----|-----|----|
| Salol                    | ... | ... | ... | 60 |
| Gum tragacanth, powdered | ... | ... | ... | 15 |
| Gum acacia, powdered     | ... | ... | ... | 15 |
| Lump sugar               | ... | ... | ... | 90 |

made with ether as already described.

|                     |     |     |     |      |
|---------------------|-----|-----|-----|------|
| Piperazini          | ... | ... | ... | 3j.  |
| Liq. strychninæ     | ... | ... | ... | m50  |
| Syr. aurantii       | ... | ... | ... | 3vj. |
| Aquæ chloroformi ad | ... | ... | ... | 3vj. |

Ft. mist.

As piperazine is alkaline, and would therefore throw out the strychnine from the liquor, mucilage of acacia was added, though the amount of chloroform-water present makes it very improbable that the alkaloid would come out, seeing that chloroform is one of the best solvents for strychnine.

|                                    |     |     |     |        |
|------------------------------------|-----|-----|-----|--------|
| Bismuthi salicylatis               | ... | ... | ... | gr. 80 |
| Pulv. cretæ c. opio (Lond. Pharm.) | ... | ... | ... | 3ij.   |
| Mucilaginis acaciæ                 | ... | ... | ... | 3iv.   |
| Spt. chlorof.                      | ... | ... | ... | 5ij.   |
| Aquæ ad                            | ... | ... | ... | 3viij. |

M. Ft. mist.

The salicylate being liable to float to the surface owing to its containing a good deal of air locked up in its particles during powdering, it is in this case best to rub it up with the compound chalk powder, and make into a stiff paste with the spirit of chloroform, which, thoroughly saturating both the powders, causes them to mix better on the subsequent addition of the water, which must be done little by little, the mucilage being added when about 2 oz. of water has been used.

|                         |     |     |     |       |
|-------------------------|-----|-----|-----|-------|
| Liq. hydrarg. perchlor. | ... | ... | ... | 3j.   |
| Liq. strychninæ         | ... | ... | ... | mxxx. |
| Aquæ destillatæ ad      | ... | ... | ... | 3vj.  |

Ft. mist.

There was no visible precipitate when the liquors, each previously diluted with 3 oz. of water, were mixed together; but for safety a new mixture was made up with the addition of acacia mucilage.

|               |     |     |     |       |
|---------------|-----|-----|-----|-------|
| Atropinæ      | ... | ... | ... | gr. j |
| Cocainæ       | ... | ... | ... | gr. j |
| Vaselinæ albi | ... | ... | ... | 3ij.  |

Dissolve with gentle heat, and then add, when cool—

|              |     |     |     |            |
|--------------|-----|-----|-----|------------|
| Acid. borici | ... | ... | ... | gr. viiss. |
|--------------|-----|-----|-----|------------|

These directions, if the ointment only contained one of the alkaloids, would be all right; but when both cocaine and atropine are present as prescribed the atropine is not soluble 1 in 120, and, on cooling, part of the atropine is deposited as pasty specks. It is preferable to dissolve the cocaine in the vaseline as directed, and then, when cool, work in the boric acid, with which the atropine has been intimately mixed.

|                  |     |     |     |     |
|------------------|-----|-----|-----|-----|
| Cupri oleatis    | ... | ... | ... | 3j. |
| Lanolini c. oleo | ... | ... | ... | 3j. |

Ft. unguentum.

When warmed with lanoline (anhydrous) 3ij. the oleate showed signs of reduction, so a new lot was made by dissolving the oleate in 3v. of olive oil with gentle heat, and then stirring in the lanoline when nearly cold. In this way there were no signs of the yellow cuprous salt in the product.

|                    |     |     |     |         |
|--------------------|-----|-----|-----|---------|
| Hydrarg. perchlor. | ... | ... | ... | gr. iij |
| Ung. petrolei      | ... | ... | ... | 3j.     |

Ft. unguentum.

The irritating effect of even minute particles of perchloride of mercury on the skin being borne in mind, a solution of this salt was made in 30 minims of S.V.R. One fluid drachm of castor oil was mixed with this, and then the liquid mixed



with the unguentum petrolei on a slab with the point of a bone spatula.

|                         |             |
|-------------------------|-------------|
| Zinci oxidi ... ..      | 3ss.        |
| Amyli pulv. ... ..      | 3ss.        |
| Acidi salicylici ... .. | gr. x.      |
| Adipis lane hydros. ... | 3ss.        |
| Paraffin. mollis ... .. | 3ss.        |
| Olei lavandule ... ..   | q s. (mij.) |

M. Ft. unguentum.

On keeping this seemed to become rather lumpy in places, and as this was most likely the effect of the action of the salicylic acid on the zinc oxide, in the presence of the water from the hydrous wool-fat, forming zinc salicylate, the following *modus operandi* was adopted: The acid was rubbed down with 1 dr. of zinc oxide, then 80 minims of water added and well mixed. To this an ointment, made by rubbing the rest of the powders fine, mixing with paraffinum album molle and adeps lane (anhydrous) 170 gr. melted together, was next added, and finally the perfume—the object being to form the zinc salicylate at once and so prevent further change.

|                          |      |
|--------------------------|------|
| Resorcin. ... ..         | 5j.  |
| Ung. chrysarobini ... .. | 3ss. |

Ft. unguentum.

The resorcin must be powdered fine and added to the unguentum chrysarobini in the cold, for, the resorcin being soluble in oils about 1 in 20, if heat were used the excess would crystallise out on cooling. When chrysarobin and resorcin are melted together in the proportion of 5 and 1, the mixture melts at a lower temperature than does chrysarobin alone, and an ointment made with the mixture is smoother and easier made than when chrysarobin is there by itself. Phenol has also a solvent effect on chrysarobin.

|                               |      |
|-------------------------------|------|
| Acid. carbol. pur. ... ..     | 5j.  |
| Paraffin. liquid. alb. ad ... | 5ij. |

M. Ft. oleum.

The relative insolubility of carbolic acid in paraffin ointments, as pointed out by C. F. Henry, gave an indication that this oil would not keep in solution the amount of phenol ordered. This opinion was justified on experiment, for fully half the phenol separated on cooling. On communication with the doctor, olive oil was ordered instead of the liquid paraffin.

|                      |         |
|----------------------|---------|
| Argent. oxidi ... .. | gr. ix. |
| Ext. gentiane ... .. | q s.    |

Ut fiat massa. Divide in pil. xij.

The oxide was massed with resin ointment, and then the ext. gentiane, made into pilular consistence with powdered gentian, was added to bring the pills up to 2 gr. each. By this means the action of the extract on the oxide was obviated as far as possible.

|                    |         |
|--------------------|---------|
| Exalgin. ... ..    | gr. ij. |
| Phenacetin. ... .. | gr. ij. |

Ft. pulvis. Mitte xij.

When rubbed together these powders gave off a persistent odour of valerianic acid, though separately neither the exalgin nor phenacetin had any smell. A possible explanation is that one of these bodies had been crystallised from amylic-alcohol solution, and that traces of this, locked up in the crystals, either mechanically or as "alcohol of crystallisation," had become oxidised to valerianic acid or some similar compound.

Mr. PIERSON thought that in the ointment containing zinc oxide and salicylic acid the possibility of the formation of zinc salicylate was very remote. Another member was of the opinion that mucilage was unnecessary in the mixture containing liq. hydr. perchlor. and liq. strychnine, as the dilution was so great that there was not much chance of a precipitate forming.

In reply to Mr. Pierson, Mr. WYATT maintained that his method was correct. Answering the objection to the addition of mucilage, he said it was used as a safeguard against a precipitate forming when the mixture reached the patient's hands.

# MISCELLANEOUS COMMUNICATIONS.

Mr. P. H. MARSDEN said he had had a prescription containing sodii bicarb., sodii sulphas, tr. nucis vom., glycerin, borax, and water, which effervesced. He would like to know if any member could throw any light on this.

Mr. HAROLD WYATT, jun., said it was impossible to avoid effervescence, as borax and glycerin, even in very dilute aqueous solutions, reacted, according to Professor Dunstan, with the formation first of glyceryl borate and sodium metaborate, and the subsequent decomposition of the glyceryl borate by the water into glycerin and boracic acid.

Mr. A. H. MORGAN wished to know why glyco-gelatin suppository-mass containing boracic acid became opaque. The mass contained 50 per cent. of glycerin and a small quantity of boracic acid, and after standing three days the acid crystallised out.

Mr. H. WYATT, jun., said there seemed to be a reaction between the gelatin and the boracic acid, as the mass became so soft that double the amount of gelatin has to be used to make it workable, and the opacity becomes greater day by day until the end of a week, when the pessaries he had made were opaque to the centre.

Mr. P. F. WHITE had an emulsion to make as follows:—

|                        |      |
|------------------------|------|
| Ol. morrh. ... ..      | 5j.  |
| Liq. potassæ ... ..    | 3ss. |
| Mucil. trag. ... ..    | 5ss. |
| Aq. chlorof. ad ... .. | 5ij. |

M. Ft. emulsio et adde—

|                               |     |
|-------------------------------|-----|
| Syr. ferri phosph. co. ... .. | 5j. |
|-------------------------------|-----|

The emulsion went well until the syr. was added, when it at once separated. He also had had pills to make with creosot. mij. and ol. terebinth. mij. in each, and others containing phenol gr. ij. These latter he had made up into pills, and the creosote and turpentine were sent out in capsules. It was thought that the liq. potassæ should be omitted from the emulsion as unnecessary, and that the phenol might have been sent out dissolved in oil, also in capsules.

Mr. P. H. MARSDEN mentioned that in his apprentice days he had a prescription of ol. cubeb. mij. ft. pil. His master jocularly promised him half a crown, and the patient also promised a like amount, if he could make them. He at once wrote to the C. & D., and he was recommended by that journal to gently warm the oil with yellow wax and make the pills. The result was that the pills were made, and he got his 5s.

Another member said he had had to make pills containing gr. ij. of crystal phenol, and had got over his difficulty by making pills containing 1½ gr. phenol with soap and liquorice-powder.

Mr. THEO. H. WARDLEWORTH then read a short note on

## "PLANT-CELLS,"

with lantern-illustrations, the principal point of his remarks being to enforce upon the students the importance of accurate observation of what they saw under the microscope rather than impressions to be gathered from "artistic" text-book illustrations. The reader of the note contrasted the pictures taken from some text-books with some actual sections then under the microscope in support of his remarks, and urged upon those present to exhibit individuality in their work even as students.

## Bradford and District Chemists' Association.

A LECTURE under the auspices of this Association was delivered by Mr. W. LAMOND HOWIE, at the Bradford Mechanics' Institute, on February 6. Mr. Howie lectured on "Five European Capitals," describing a continental tour, with visits to Berlin, Dresden, Prague, Vienna, and Buda-Pesth. The lecture was illustrated with some excellent photographic slides, which included several reproductions by Dr. Joly's process of photography in natural colours. The chair was occupied by Mr. A. H. Waddington, President of the Association.

After the lecture members of the Association, along with Mr. Howie and Mr. Daniels, adjourned to the County Restaurant, where, supper being disposed of, Mr. Waddington,



on behalf of the Association, presented Mr. Howie with a handsome silver cigar-case. Mr. Howie made a suitable acknowledgment, and the rest of the evening was spent with music and song.

### Dewsbury Chemists' Association.

ON Monday evening a meeting was held at the Town Hall, Mr. A. Foster presiding. Members were present from Dewsbury, Heckmondwike, Cleckheaton, Mirfield, Ossett, and Savile Town.

The SECRETARY (Mr. R. Gledhill) read several letters, among these being one from

#### C.A.M.W.A.L.,

stating that the directors had taken counsel's opinion on a question raised by the Association at the last meeting, and that counsel ruled that C.A.M.W.A.L. was bound to supply any shareholder who was a chemist, and that any shareholder who was a chemist could order goods to be delivered where he liked. If the directors were to stop the supply to stores, the stores would probably become makers on their own account, and cut prices as Messrs. Boots were doing in the Midlands.

The CHAIRMAN proposed that the district covered by the Association be divided, Mr. W. Stead (Heckmondwike) to act as Local Secretary for the Pharmaceutical Society for Heckmondwike, Liversedge, Cleckheaton, Birstall, and Mirfield; and Mr. R. Gledhill for Dewsbury, Batley, and Ossett.

A communication had been received from Mr. W. S. Glyn-Jones with reference to

#### THE CHEMISTS' DEFENCE FUND.

Mr. STEAD argued that 1,000*l.*, the amount of the proposed guarantee fund, was altogether insufficient. It ought to be at least 10,000*l.*

The members then talked about

#### DISPENSING IN SURGERIES,

the CHAIRMAN remarking at the outset that they were on very touchy ground.

Mr. R. Broadhead (Batley) had written arguing against dispensing by doctors, but Mr. J. DAY (Savile Town) said he thought Mr. Broadhead altogether off the mark. Doctors, he went on to say, would always dispense their own medicines. What they objected to was doctors employing grooms and boys. At one or two places in Dewsbury men who had been taken on as errand-boys and grooms acted as dispensers. Mr. G. WALKER (Dewsbury) submitted a resolution that the following letter be approved of and sent:—

*To the Clerk of the Privy Council.*

Sir,—The Dewsbury and District Chemists' Association desire to draw the attention of the Privy Council to the recent fatality to a patient at Heaton Norris, caused by the dispensing of an excessive overdose of morphia by an unqualified dispenser to a medical man; and whereas in chemists' shops, the keeping, sale, and dispensing of poisons is hedged about by certain restrictions for the safety of the public, and there are no such restrictions in the case of doctors' private surgeries or dispensaries, the above association of chemists would urge that either all medical men who do not write prescriptions be required to personally dispense all medicines, or employ a dispenser who holds the Minor qualification of the Pharmaceutical Society, as the Association considers the Assistant's certificate of the Apothecaries' Company not a sufficient legal qualification.

Mr. DAY objected to the last part of the letter. Mr. WALKER referred to the discussion at a meeting of the directors of the Arbroath Infirmary on this question, and said Mr. James Jack contended that the Assistant's certificate was not sufficient.\* Mr. GLEDHILL pointed out that there was no properly-qualified dispenser at the Dewsbury Infirmary. If something was not done all the dispensing at

\* It may be useful to explain that Scotch law does not recognise the Apothecaries' Assistant's certificate, the Apothecaries Act being solely applicable to England and Wales. The certificate is not anywhere a statutory qualification so far as the dispensing and sale of poisons is concerned.—Ed. C. & D.

the infirmaries would in a year or two be done by ladies. They should try to keep them out. Mr. G. WALKER said that if a man of Mr. Jack's standing thought there ought to be a change they would be all right in passing the resolution. (Hear, hear.) Mr. W. STEAD having seconded the motion, Mr. DAY proposed as an amendment that the latter part of the letter be left out. This was lost, and the resolution passed. It is to be sent to the Privy Council, the Pharmaceutical Society, and the British Medical Association.

#### THE PHARMACY BILL.

The Federation of Local Associations wrote asking the Association to support the new Pharmacy Bill, and Mr. STEAD submitted the following resolution:—

That the action of the Council of the Pharmaceutical Society in their proposed further amendment of the Pharmacy Act, 1868, commands the sympathy and approval of the members of this Association, and that the Secretary be authorised to assure the said Council of the utmost endeavour and support of this Association in the event of the proposed Bill being proceeded with, the Association reserving to itself the opportunity of suggesting such modifications as may appear desirable.

Mr. Stead did not suppose they would get all that was included in the suggestions. Some of the clauses would have to be modified, and there would probably be strong opposition to the widows' clause from their own ranks.

The motion was seconded by Mr. G. N. GUTTERIDGE (Dewsbury), and passed unanimously.

It was decided that the annual dinner of the Association should be held on February 21.

### Exeter Association of Chemists and Druggists.

THE annual meeting of this Association was held on February 3, Mr. D. Reid (President) in the chair. The Hon. Secretary and Treasurer (Mr. P. F. Rowsell) presented his statement of accounts, which were passed, after which, on the motion of Mr. J. HINTON LAKE, seconded by Alderman GADD, J.P., Mr. Reid was requested to accept re-election. Mr. Reid thanked the members for the proposal, but very regretfully declined the honour. Consequently, on the motion of Mr. E. LEMMON, seconded by Mr. VINDEN, Mr. Rowsell was elected to the chair of the Association, Mr. Reid being chosen as Vice-president. Mr. J. W. Lake was next proposed to fill the offices of hon. secretary and treasurer, but Mr. J. H. Lake said he was sure his son would not be able to accept the position. Ultimately Mr. H. Wippell Gadd accepted the secretaryship. Mr. J. W. Lake was appointed treasurer.

The following committee was appointed for the ensuing year:—Alderman H. Gadd, J.P., Messrs. J. Hinton Lake, T. C. Milton, G. Stocker, E. Lemmon, and F. W. Vinden.

The meeting next proceeded to consider P.A.T.A. business. Letters were read from Mr. Glyn-Jones, the Secretary, asking the Association to pass a strong resolution urging every chemist in their district to refuse to distribute literature or exhibit showcards for non-protected articles, and to send copies of such a resolution to the leading non-protecting proprietors, a list of whom was given. Also of calling attention to the defence scheme, and further inviting every chemist member of the Association, who is a dealer in photographic materials, to become a member of the photographic section, without further subscription. These communications were referred for consideration to a special committee, consisting of the President, the Hon. Secretary, Messrs. J. Hinton Lake, E. Lemmon, and G. Stocker.

Mr. Glyn-Jones's letter to the Privy Council respecting doctors' dispensaries was next discussed. Mr. ROWSELL strongly supported Mr. Glyn-Jones's action, and suggested that the Association should pass a resolution to send to the Privy Council. Mr. STOCKER thought it would be better to send a letter to the Pharmaceutical Society asking them to approach the Privy Council. Alderman GADD thought they had better wait to see what the Pharmaceutical Council did; and Mr. LAKE said that body was bound to take up the question sooner or later.

Mr. LEMMON said the Pharmacy Act was passed in 1868



and the Society had taken no steps yet to prevent doctors allowing their grooms, or servants, or anybody dispensing.

Mr. LAKE felt strongly that no communication should be made direct to the Privy Council. If it is thought desirable to send a communication, it should be through the Council of the Pharmaceutical Society, or by-and-by the government of pharmacy would be taken out of the hands of the Pharmaceutical Society. Alderman GADD agreed that if they went in for gnerilla warfare they would have no chance of obtaining favourable legislation.

After further discnsion, Mr. STOCKER proposed that the following resolution be sent to the Pharmaceutical Society:—

That the Exeter Association of Chemists and Druggists would call the attention of the Pharmaceutical Society of Great Britain to the great danger now existing from the practice of the dispensing of poisons by unqualified persons in doctors', workhouse, and other dispensaries.

The resolution was carried unanimously.

Several communications were read from Mr. R. C. Cowley, Secretary of the Federation of Local Associations, and these were referred to the special committee appointed to consider P.A.T.A. matters.

Some discussion occurred in respect to the Association's programme for the year, and particularly in reference to the meeting of the British Pharmaceutical Conference at Plymouth, but the decision on these matters was deferred.

### Halifax and District Chemists' Association.

A MEETING was held on Thursday, February 2, at the Old Cock Hotel, Mr. John Patchett in the chair. A vote of condolence was passed to Mr. G. M. Cobb, the President, on the death of his daughter. A discnsion took place on the poisons-storage regulations, and, on the motion of Mr. C. FIELDING, the meeting formally approved of them.

The SECRETARY (Mr. H. C. Brierley) read to the meeting various extracts from Mr. Rymer Young's pamphlet on the Pharmacy Act, drawing special attention to the paragraph on misnse of chemists' titles.

Mr. C. FIELDING, Local Secretary to the Pharmaceutical Society, presented his quarterly report. Dissatisfaction was expressed by the members at the action of Messrs. Hood in putting up a 13½d. size of their sarsaparilla which was about two-thirds the size of the 2s. 9d. bottle. Complaints had been made to several of the members by consumers, and it was felt to be hard upon the chemist to have stock of the 2s. 9d. size left in his hands.

### Irish Pharmacists' Assistants' Association.

At the meeting held at 67 Lower Mount Street, Dublin, on Friday, February 3, Mr. Henry Hunt (President) in the chair, a discussion on "Some Unusual Prescriptions" took place, in which Miss ADA WYATT and Messrs. JONES, DEMPSEY, JESSOP, and the PRESIDENT took part. Amongst the prescriptions exhibited was one for "emp. cantharides, size of paper sent herewith, to be applied over the lung where marked." The dimensions of the paper were 18 inches by 12 inches. The directions for an 8 oz. mixture accompanying the blister were as follows:—"Take 1 oz. every hour for four hours, then 2 oz. every two hours for four hours more, then 4 oz. every four hours." The customer was considerably taken aback when informed that it would be necessary to invest in three times the prescribed quantity in order to take the mixture "as directed." The PRESIDENT submitted the following prescription:—

|                   |     |     |     |           |
|-------------------|-----|-----|-----|-----------|
| Ferri arsen.      | ... | ... | ... | gr. iv.   |
| Ext. cannab. ind. | ... | ... | ... | gr. ij.   |
| Ext. aloes        | ... | ... | ... | gr. xxiv. |
| Zinci valer.      | ... | ... | ... | 3j.       |

Divide in pil. xxiv.

Mr. Hunt said that the addition of a small quantity of spirit enabled the pills to be made with very little increase in bulk, the spirit forming a plastic binding mass with the aloes. A prescription ordering sodii salicyl. and syr. Dusart was shown. The prescriber would not change the prescription, his instructions being to "let them fight it out."

Some samples of 5-gr. pills turned out by a well-known maker were exhibited; they were taken at random from an original bottle, and they varied in weight from 4 to 6 gr. Pill-massing came in for a fair share of attention, and some interesting methods in rolling and silvering were described by Messrs. DEMPSEY and JONES. Miss WYATT said she was not in the habit of silvering pills. It was the general opinion that some of the prescriptions shown were deserving of a place in the Pharmaceutical Society's museum of cnricities.

### Manchester Pharmaceutical Association.

At the meeting of this Association on Wednesday evening Mr. A. W. DUNCAN, F.C.S., resumed the discussion on

#### THE NEW B.P.

by reading a paper dealing with its chemistry and tests. He commenced by advancing some objections to the new atomic weights, and quoted F. W. Clark's recalculated factors. He then showed how the new weights affect volumetric estimations, and pointed out that the volumetric soda-solution of the B.P. contains a considerable quantity of carbonate. Speaking of the indicators, he mentioned that the B.P. does not direct litmus and phenolphthalein solutions to be neutralised. The latter he had found to be acid, and recommended it to be made just pink with soda. The acids were then discussed in detail, and this led the author to suggest that the B.P. is unnecessarily profuse with tests in some cases, and in others too vague—as when it states that copaiba should yield 40 per cent. of essential oil, but does not say how it is to be determined. The phraseology of "characters and tests" was also criticised, such phrases as "only the slightest reaction" being objected to, and clearer definitions demanded. The B.P. lead test was also condemned, and Mr. Duncan proceeded to comment upon the tests for the following: Distilled water, precipitated and prepared chalk, cream of tartar, sodium hypophosphite, calcium phosphate, lime, extract of nuxvomica, extract of ipecacuanha, pepsin, and Peru balsam. His remarks mainly traversed points already dealt with, but in regard to balsam of Peru, he said there is an error in the process of assay. After treatment with a solution of sodium hydroxide and afterwards with ether, the residue is to be dried, &c. In the original (Gehe, *J.B.P.*, 1895, 137) it is the ethereal solution which is directed to be evaporated, dried, &c.

Generally Mr. Duncan was of opinion that the Pharmacopœia should not aspire to the position of an analytical text-book. It should state the degree of purity required, sp. gr., and other coefficients, and leave the analyst to choose his own methods whenever they can be readily learnt from recognised sources. When there is no standard method of obtaining a coefficient, and it varies with the method employed, directions should be given.

A brief discussion followed, in which the President (Mr. G. S. Woolley), Mr. Hoseason, Mr. W. Gibbons, Mr. Grier, and Mr. Pidd took part.

### Sheffield Pharmaceutical and Chemical Society.

At a meeting held on Wednesday evening a discnsion on

#### THE DIVISION OF THE MINOR EXAMINATION

was introduced by Mr. J. Preston. Mr. G. Squire (President) was in the chair.

Mr. PRESTON advanced several reasons why division should take place. The quality and number of the subjects demanded for one examination were unreasonable, and whether spread over two consecutive days or over two days with a break, it was altogether too exhaustive. It was also too much to expect that the examiners could gauge the fitness of a candidate in the short time they had him under notice. The 69.53 per cent. of failures proved there was something wrong somewhere. Medical and legal bodies divided up their examinations, and he saw no reason why they should not do the same. He suggested that candidates should be allowed to enter for part of the examination during pupillage, the final being reserved until the candidate was 21. In this way knowledge would be gained systematically with a



minimum of cram, and, as a result, a truer education would ensue. (Applause.)

The PRESIDENT, in generally agreeing with what Mr. Preston had said, admitted that examinations were much stiffer now than formerly. The condition of the candidates sometimes was very lamentable, and the result was that many of them after rejection went to the stores. He proposed that they should communicate with the Pharmaceutical Society to the following effect:—"It is desirable that the Minor examination be divided, so that any subject may be taken by the candidate at his pleasure at any time during his pupilage, provided that the final subjects be taken at or after the age of 21."

Mr. IBBETT seconded.

Mr. J. W. TURNER attributed a great many of the failures to the low standard of the Preliminary. If they could allow a student at the end of the two years to be examined in chemistry and hotary, and at the end of another two years go in for the final special subjects it would be better.

Mr. MORRISON favoured the proposal, because the result would be better qualified men than was now often the case.

Mr. ELLINOR and other members spoke, and the resolution was adopted.

#### OTHER BUSINESS.

It was intended to present to Mr. W. Ward, F.C.S., a portrait which had been subscribed for by a number of chemists in Sheffield in recognition of his twenty-one years' service as Hon. Local Secretary of the Pharmaceutical Society, but owing to the indisposition of Mr. G. T. W. Newsholme the presentation was postponed.

At the last meeting essays were read by several students on the "Best Method of Education for Pharmaceutical Students," and prizes were awarded to Mr. W. Coulshed and Mr. A. Yates.

#### Inverness Chemists' Association.

ON February 7 a lecture on "The Serum-treatment of Disease" was delivered by Dr. ENGLAND KEER at the Waverley Hotel. Mr. John Fraser (President) occupied the chair, and there was a large attendance. The lecturer dealt fully with "antitoxins," in the efficacy of which, under certain conditions, he thoroughly believed. He stated that he had used the serum-treatment in several severe cases of diphtheria with the best possible results, and, while admitting that the system was still, to a certain extent, on its trial, claimed that there was sufficient evidence to warrant its acceptance as one of the greatest discoveries of the nineteenth century. Specimens of serum and the special syringe used for its injection were exhibited on the table. An interesting and animated discussion followed, amongst the speakers (some of whom were sceptical) being Drs. Moir, Mackenzie, and MacLennan, and Messrs. Fraser, Allan, Junor, Mitchell, Mackenzie, and Macleod.

#### Arbroath C. A. and A. Association.

A MEETING of this Association was held on February 8, Mr. Bennett (President) in the chair. Mr. E. BROADBURN read a paper on "Saltpetre," explaining the different methods of its preparation, and also giving an account of the countries from which it is obtained and the uses to which it is put. At the close he was heartily thanked.

#### Chemists' Assistants' Association.

AT the meeting of this Association held on February 2 Mr. S. W. Woolley read a paper on "The Spectacle-makers' Company and its Optical Examination." Among those present were Mr. W. H. E. Thornthwaite (Master of the S.M.C.), Mr. and Mrs. H. C. Kemp, and other prominent Spectacle-makers. Mr. Woolley began by tracing the origin of the Livery Companies from the Anglo-Saxon guilds, through mediæval times down to the present day, alluding particularly to the good effect the Livery Commission report of 1884 had in allaying popular misconceptions as to the uses the wealth of the companies was put to. Passing to the S.M.C. it was, he said, not traceable previous to the granting of its charter in 1629. An Act of Common Council dated 1658 enacted that all persons using the trade

of spectacle-makers within the City or liberties were to become free of the Company. The Company's minute-books date from 1666, the previous volumes having been destroyed in the great fire. In 1809 the Company applied for the apportionment of a livery. The Company is sixtieth in order of precedence, but the second largest in size. At present there are 350 liverymen, 700 freemen, and one honorary member (the Astronomer Royal) belonging to the Company, and among these there are 200 practical opticians. The Court of the Company was characterised as the most select in the City of London. Dr. Henry T. Maw was mentioned as a member of the Optical Committee. In speaking of the Company's motto, "A Blessing to the Aged," it was suggested that "A Blessing to Mankind" would be more appropriate now that the aged have ceased to have the monopoly in the use of spectacles. After speaking of the income of the Company, derived from trust and corporate property, Mr. Woolley spoke of the exhibitions held by the Company in 1893 and 1898, which were both very successful. He then went on to speak of the examination-scheme, and the curriculum at the Northampton Institute. The paper, which was illustrated by about two dozen lantern-slides, finished with a description of the loving-cup-ceremony.

The discussion which followed the reading of the paper, and in which Mr. W. H. E. Thornthwaite, Mr. Gamble (President of the C.A.A.), Mr. Peter MacEwan, and others took part, was concerning the Company's restriction against using mydriatics.

## Festivities.

#### A SILVER WEDDING.

Surprise-parties are not the strong feature in English social life that they are in the United States, and rarely has the *C. & D.* to share in such things. It was our good fortune to take part in one which Messrs. Francis Newbery & Sons, of King Edward Street, E.C., gave in Wild's Hotel, Ludgate Hill last Saturday, their employés being the ostensible guests; but, as it turned out, the firm and their staff had really assembled to honour their manager, Mr. Edward Pickering, whose silver-wedding day it happened to be.

To Mr. Pickering the affair was (up to a point) the New Year social gathering, different from those which have preceded it in the presence of a few ladies of the Newbery family, Mrs. and Miss Pickering, and Dr. Penniman, (Trommer Malt Company). Messrs. Arthur L. Newbery and Lionel Newbery, the senior partners, and Mr. Francis R. Newbery, the junior partner, guided the arrangements, which, after tea, took the form of a musical evening, several of the staff contributing good songs and instrumental pieces. It was interesting to note that the brothers Newbery presided side



MR. E. PICKERING.

by side, and the way in which they discharged the duties of the double chair made everybody cheery. Mr. Arthur Newbery was the first to speak. Recalling the fact that the firm had made six changes since they started business in 1746, and that now they were outgrowing the several houses which sheltered the expanding business, Mr. Newbery said that Mr. Pickering had been a willing helper to them in the growth and expansion of the business. He had been



faithful and attentive to his studies as well as to his duties—(applause)—as the business grew he grew—he had commenced at the bottom of the ladder and now was close to the top rung. They were met there that day to do honour to him; it was his silver-wedding day, and he ventured to say that Mr. Pickering was a good honest specimen of the married man. (Laughter and cheers.)

Mr. Lionel Newbery said he knew few men who had studied so well as Mr. Pickering, who came to his firm thirty-four years ago to a subordinate position, and by always mastering his work had earned for himself the respect of the firm and of the whole staff. (Applause.) He was a man of talent, and it was to his credit that he had acquired linguistic and other accomplishments while he was working hard in the house. His characteristics had won for him universal respect—in the house, outside it; in the country, and abroad. (Applause.) After his thirty-four years' work, and on this, his silver-wedding day, he wished to say heartily, "God bless him and his family. He is and has been a helper of men." (Applause.)

Mr. Newbery then presented Mr. Pickering with a valuable gold watch from Messrs. Francis Newbery & Sons, which was accompanied by a silver tea and coffee service to Mrs. Pickering, and to which Dr. Pennymann added a silver inkstand and penholder. Mr. Pickering's reply was in the circumstances brief, as strong emotion had the mastery, and the cheers of his colleagues were unnering. But this was not all. Mr. Adkin (country representative of the firm) was next called upon, and on behalf of the staff congratulated Mr. Pickering, wishing him as happy a golden-wedding day, and expressing the staff's appreciation of his worth. This was seconded by Mr. Humphrey, and Mr. Adkin presented Mr. Pickering with a tersely-worded illuminated address. Mr. Shotton, another member of the staff, was next called upon, and in a sparkling speech succeeded in saying some things that had been left unsaid. He often thought that Mr. Pickering was a worthy successor to Dr. Samuel Johnson [whose early connection with the Newbery house most druggists are aware of]. But there were some points in which Mr. Pickering had the advantage of the Doctor. For example, Dr. Johnson took seven years to finish his dictionary, but Mr. Pickering managed to publish a volume every year which was a credit to the editor [*i.e.*, Newbery's Catalogue]. Better than that, he was regarded by the staff as their guide, philosopher, and friend—especially friend. (Cheers.) These sentiments Mr. Joyce endorsed, and Mr. Shotton, at the request of his colleagues, presented Mrs. Pickering with a case of fruit knives and forks. Mr. Pickering's reply was again brief but feeling, and after a few more speeches and some music the surprise-party came to an end. It was enjoyable throughout, and the fact that it touched a nerve-centre of a big business-organisation made it none the less interesting. "God Save the Queen" and cheers for the President of the United States closed the proceedings. In the course of the evening telegraphic congratulations came from the Rev. Herbert Newbery, of Everton, and his brother, the Rev. Archibald Newbery (Calcutta), who was some ten years ago associated with Mr. Pickering in the business.

#### NORTHERN CHEMISTS' AND DRUGGISTS' SOCIETY OF IRELAND.

The annual meeting and *conversazione* of the above Society was held in St. George's Café, High Street, Belfast, on February 2. The members and their lady friends attended in large numbers. Tea and cake having been discussed, Sir Jas. H. Haslett, M.P. (President), congratulated the Society upon the very creditable and progressive record it possessed. Those engaged in their trade were handicapped by the practice of selling proprietary articles at practically cost-price, and the public required to be educated in the matter of fair dealing and fair prices in connection with these goods. He trusted the Society would devote its energies to solving practical difficulties, and, by maintaining the highest standard of quality in all the developments of trade, advance the mutual welfare of themselves and their customers.

The report and statement of accounts, submitted by Mr. J. Rankin (Secretary) and Mr. S. Gibson (Treasurer) respectively, were adopted unanimously.

The election of officers for the year then took place, with the following result:—President, Sir Jas. H. Haslett, M.P.; Secretary, J. Rankin; Treasurer, S. Gibson; Vice-Presidents, Thos. McMillan, John Watson, Wm. Doig, John Campbell, Wm. Jamison, S. Clotworthy, S. Turkington, and Jas. Hogg; committee, S. Acheson, Jos. Brown, Joseph Douglas, W. J. Gibson, W. Lyttle, S. Hill, S. McDowell, S. Suftern, J. Thackleton, Jas. Gillespie, H. Backhouse, R. Cambridge, C. Ferguson, J. Gray, T. Gillespie, J. McClements, T. W. Reynolds, J. H. Shaw, T. Campbell, J. Walsh, Jas. Richardson, and J. D. Caise; Hon. Solicitor, Robt. Diamond.

After the formal business had been concluded, the remainder of the evening was devoted to music and readings, the following ladies and gentlemen contributing to an excellent programme:—Misses Johnston and Watson; Messrs. J. Brown, Aspinall, Carse, R. S. Thompson, and R. Diamond. Miss Watson supplied the accompaniments most efficiently. Mr. A. R. Hogg (of Messrs. Lizar's) photographed the committee by flashlight, and also gave an excellent cinematographic display. Other attractions were the gramophone, phonograph, and stereoscope.

#### A WHOLESALE SUPPER.

The assistants in the employment of Messrs. John Mackay & Co., wholesale druggists and aerated-water manufacturers, Edinburgh, held their sixth annual supper and smoking-concert in the Continental Hotel on Friday evening, February 3. Mr. Crawford (Glasgow manager) occupied the chair, and Mr. Geddes (manager of the Newcastle branch) acted as croupier. After supper a programme of songs and recitations was excellently rendered, and the gathering was most successful.

#### JUNIOR PHARMACY BALL.

The eleventh Junior Pharmacy Ball took place on February 8, at the Portman Rooms. About 400 tickets were sold, but a sudden epidemic of influenza reduced the attendance to 350. After supper much animation reigned, and dancing was vigorously pursued until the late-early hours of the morning. Amongst those present were Mr. and Mrs. Walter Hills. At the supper the President made a speech which was responded to, but by this time the enthusiasm was so great that the stenographic art broke down. Altogether a very jolly evening was passed.

#### ABERDEEN PHARMACEUTICAL ASSOCIATION.

This Association celebrated its diamond jubilee by holding a dinner in the Imperial Hotel on February 1. Mr. James Clark (President) occupied the chair, and Mr. Simpson acted as croupier. The members turned out well, there being about thirty present. After the loyal and patriotic toasts had been responded to, Mr. Simpson proposed "The Aberdeen Pharmaceutical Association," to which the Chairman replied. Mr. Giles gave "The School of Pharmacy, Gordon's College." "The Pharmaceutical Society" was given by Mr. Craig, and replied to by Messrs. J. Cruickshank and Johnston. Mr. Bruce did honour to "The Guests"; Mr. Leslie to "The Town and Trade of Aberdeen," and Mr. Urquhart to "The Ladies." A number of songs and recitations were ably rendered by Messrs. Cran, Clark, Cruickshank, Urquhart, and Ross.

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WHITAKER'S "TITLED PERSONS" is a book which we often have occasion to refer to, and find useful. It is a good work of reference for business houses, as it gives particulars respecting any correspondent of position, with town and country residences. It is published at 2s. 6d. by Messrs. J. Whitaker & Sons, 12 Warwick Lane, E.C.

THE question of the employment of unqualified dispensers by medical men has been formally brought before the Pharmaceutical Society by the indefatigable Mr. Glyn-Jones, and, on the motion of the President, was referred to the Law and Parliamentary Committee of that body for consideration and report. Threatened people proverbially live long, and in spite of the sensation created by the unfortunate incident to which we recently called attention, it is quite possible that the humble and unqualified dispenser may outlive his present critics.—*Medical Press*.



## Westminster Wisdom.

### THE NEW SESSION.

We open our account this week with the fifth Session of her Majesty's fourteenth Parliament. It will probably be fifteen or twenty days before any real business is even attempted. The safety of the British Constitution depends, we presume, in some occult manner on the continuance of what Mr. Balfour himself describes as the "somewhat dreary record of Queen's speeches." A parliamentarian will one day arise who will sweep away this monumental method of wasting time.

It may be considered a good omen for our prospects that that famous legislator, the Hon. W. F. D. Smith, was selected for the complimentary position of seconding the Address. Unfortunately, however, we have to presume that some circumstances independent of his last year's achievements influenced the choice. Neither Sir H. Campbell-Bannerman nor Mr. Balfour, who both had to discover something flattering to say of the two gentlemen in yeomanry uniform, seems to have recalled Mr. Smith's special title to parliamentary eminence.

The unfulfilled promises of Queen's Speeches would pave a large part of Westminster. Once more, and this for the fourth time, a Bill "for the regulation of limited companies" is promised. Another Government measure announced is one "for the prevention of adulteration of articles of food." As a bill relating to this subject was notified a little later by Mr. Walter Long, the Minister for Agriculture, and not by Mr. Chaplin, the President of the Local Government Board, we presume the intention is merely to colour margarine blue, and not to establish the long-looked-for Court of Reference.

Mr. Ure proposes an amendment to the Address regretting that no proposal was contained in the Queen's Speech for placing legislative restrictions on petroleum with a flash-point under 100° F.

Amongst the applicants who are to ballot for permission to bring in Bills on the first four Tuesdays of the Session we notice Sir James Haslett, Dr. Farquharson, and Mr. W. F. D. Smith—each of them a likely person to take up the Pharmaceutical Society's Bill, but they have other measures in view.

The House of Commons on Wednesday received and directed to lie on the table an Order in Council of November 19, 1898, approving of regulations made under the Pharmacy Acts (Ireland) by the Pharmaceutical Society of Ireland.

### BILL TO AMEND THE MEDICAL ACTS.

The General Medical Council has drafted for the consideration of the Privy Council a very short Bill, consisting, in fact, of but two clauses. This Bill has been submitted by the General Medical Council to the governing bodies of the various licensing authorities for their observations. Under the first clause the Council would be empowered to erase the name of a practitioner from the Register for a limited period, instead of as at present for an indefinite period. Under the second clause, the practitioner whose name was erased, whether permanently or temporarily, would be deemed deprived of any diploma or degree entitling him to practise, and would render himself liable to prosecution under the provisions of the Medical Act, 1858, if during the period of erasure he used any title of which he was by this section deemed to be deprived. It is understood that the Government is willing to undertake this Bill provided that it is approved by the various licensing authorities. The *British Medical Journal*, however, is informed that the College of Physicians, and perhaps some other bodies, are likely to raise objections.

### CHEMISTS' WINE-LICENCES.

It is stated that, in the draft report of the Licensing Commission, amongst the reforms suggested is one to take from chemists and druggists and grocers the privilege of obtaining licences for the sale of intoxicating-liquors.

## The Pharmacy Bill.

IT is surprising how little interest is taken in the proposals made by the Council of the Pharmaceutical Society of Great Britain for the amendment of the Pharmacy Acts. Our inquiries in London this week bring out several points very clearly:—

1. That a goodly proportion of the trade have not taken the trouble to read the suggestions.

2. That those who have are almost unanimous in the belief that the suggestions are not serious; if so, that it is a serious attempt at failure.

3. That the proposed abrogation of the widows' clause will meet with strenuous opposition from chemists and druggists, although some, whose opinion it is impossible to ignore, maintain that it would be the best possible thing for widows.

We hope to return to this last point next week. Meanwhile, the following notes in respect to

### THE MOST IMPORTANT POINT OF ATTACK

show how the wind blows. In our correspondence section we print a selection from letters received this week, and on page 255 the whole matter is editorially discussed.

The experience of last Parliamentary Session clearly indicated that any Bill dealing with limited-company pharmacy would have at least one determined opponent—Mr. Jesse Boot, of Nottingham. We could not, therefore, resist the temptation of asking him a few questions the other day, when he was in London on business. Mr. Boot expressed himself as highly pleased that the Pharmaceutical Society has so fully expressed its wishes in regard to the companies-question in the suggested Bill. He said the difficulty hitherto has been to convince those interested in "keeping the open door" that the Pharmaceutical Society really was in earnest in trying to bring in a Bill to stop store-trading; even now, he thought, some of the companies will look upon the suggested Bill, not as a serious effort, but as a mere "ballon d'essai" sent up as a kind of feeler.

"Are we to expect active opposition from you?" we asked.

"Well, our Association will carefully watch the action of the Pharmaceutical Society, and will, of course, take immediate steps to oppose anything that in the opinion of the Council will be inimical to the interests of drug-companies."

"What about funds?"

"If the London stores could find sufficient funds twenty years ago to carry an appeal-case to the House of Lords, it is not likely now that funds will be lacking. Look at the immense growth of interests in this question since then. Take the three companies I am associated with. We have paid-up capital and reserves of between three and four hundred thousand pounds, and altogether the parties interested must have capital running into millions. Our Association now embraces all the principal companies carrying on a drug-business, and the leading London stores are in active sympathy with us. In some cases where they cannot, for legal reasons, hold shares in the Association, they are subscribing to the funds, so that the paid-up or subscribed capital of the Association is no criterion of its fighting-strength."

The subscribed capital of the Drug-companies' Association (Limited) is, we may say, 10,000*l.*, and of this 2,000*l.* has been paid up. It was registered in July last to support and protect the character, status, and interests of companies carrying on the business of chemists and druggists, by parliamentary action, by prosecuting and defending legal proceedings in the interests of such companies, and by supplying such companies with legal and other advice. Amongst the companies connected with it are Henry Hodder & Co. (Limited), Bristol; Inman's (Limited), Edinburgh; Taylor's Drug Company (Limited), Leeds; Metropolitan Drug Company (Limited); Boots, Cash Chemists, Western (Limited) Parke's Drug-stores (Limited), London; and Lewis & Burrows (Limited), London.

Curious to know whether other limited companies connected with pharmacy, such as Allen & Hanbury, Southall Bros. & Barclay, and Symes & Co., were included, we put the question to Mr. Boot, and gathered from him that



they have kept aloof; "but," he said, "although they do not sail with us, they must see it is to their interests to go in the same direction as we against the Bill. It affects them as much as it does Lewis & Burrows, Days, or ourselves."

"Supposing it pass, Mr. Boot, what will become of such companies as yours?"

Mr. Boot laughed quietly as he suggested that it was rather a big order to expect the Bill to pass in its present form, or in any form which would tend to give chemists and druggists a monopoly of the sale of medicines, but he did not think that the existence of drug-stores belonging to limited companies would be at all jeopardised even if the Act did pass, and he gave us to understand that the Association of which he is the President have considered all eventualities, and are prepared to meet them when they arise.

\* \* \* \*

A C. & D. representative has seen Mr. Gough, general manager for Messrs. Lewis & Burrows (Limited), in regard to the Bill. "Had it come twenty years ago," said Mr. Gough, "I would have called it a very good Bill indeed, but it has come twenty years too late. It is quite in keeping with the policy of the Pharmaceutical Society, which has never been anything but irrational and unstatesmanlike. How are they going to treat us? Our company was started by qualified chemists, and every business which we acquired was a *bona-fide* chemist's business, owned and run by a registered chemist, and that condition of things still holds good. Our board of managing-directors, with one exception, consists of qualified men. We do not see how the proposed Bill can be made to apply to us at all. The Bill, however, is running entirely counter to all vested interests, and when you come to consider that we alone represent something like 100,000*l.* capital, you may have an idea of the amount of opposition to be expected. The widows' clause I consider to be quite in keeping with the general tenor of the Bill."

## Deaths.

**BAYLY.**—On January 21, Mr. J. H. Bayly, chemist and druggist, Great Yarmouth. Aged 63.

**CHRISTY.**—On February 8, at the Manor House, Wallington, Sophia, the wife of Mr. Thomas Christy, F.L.S., 25 Lime Street, E.C. Aged 59.

**COWNLEY.**—On February 1, at Dnlwich, Emma, the wife of Mr. A. J. Cownley, F.I.C., F.O.S., of 13 Fenchurch Avenue, E.C.

**DYER.**—On February 5, at Malvern, Clarendon, Miss Mary Jane Dyer, eldest daughter of the late Mr. Hy. Dyer, chemist and druggist, Trowbridge. Aged 68.

**FOSTER.**—At Rochester, on January 29, Mr. A. J. Foster, chemist and druggist. Aged 82. The deceased was a well-known public man, being for some time a Town Councillor. He was also one of the auditors of St. Margaret's Burial Board. He retired from business two years ago.

**HARVEY.**—At Retford, on February 5, Mr. Henry Harvey, chemist and druggist, Bridgegate. Aged 53. Deceased was formerly in business at Newark and Collingham.

**KENAH.**—On January 25, Mr. William Thomas Kenah, chemist and druggist, Liverpool. Aged 46. Deceased was well known in drug-circles in Liverpool, having held for some years the position of general manager of the extensive business carried on by the executors of the late Mr. W. T. Warhurst. Mr. Kenah had an extremely attractive personality, and was a man of generous impulses and of unusual business capacity.

**LYOYD.**—Alderman A. E. Lloyd, manufacturing chemist, died at his residence, Brackley House, Worsley, near Manchester, on February 2. Mr. Lloyd was born at Salford in 1825. He was engaged in business as a manufacturer and dealer in chemicals, first at Wigan, and afterwards in Manchester, in partnership with Mr. Higgin, the firm-name being "Higgin, Lloyd & Co." Mr. Lloyd entered the Manchester City Council in 1880, and in 1892 was made an alderman, and Mayor in 1894, holding the office two years.

**MORRISON.**—At St. Mary's Hospital, Paddington, on February 1, Dr. Henry Morrison. Aged 78. Dr. Morrison for many years had a chemist's business in Church Parade, Hounslow, and had a local reputation for kindness and charity.

**MUNDEY.**—At St. Anne's-on-the-Sea, on February 2, Mr. Henry Munday, chemist and druggist, late of Cheetham Hill, Manchester. Aged 71.

**POYSER.**—On January 27, Mr. Robert Poyser, chemist and druggist, Uttoxeter. Aged 50.

**PRATT.**—On February 4, at Barnstaple, North Devon, Mr. Edward Pratt, pharmaceutical chemist. Aged 75. The deceased was formerly in business at High Cross, High Street, from which, however, he only retired eighteen months ago. As a business man, he was greatly respected by all for his probity and consistent uprightness. He was an ardent, but not obtrusive, Conservative, and a Churchman, holding at one time the position of vicar's warden in the parish church. He leaves a widow, two sons, and a daughter.

**REEVE.**—On January 8, Mr. E. J. Reeve, pharmaceutical chemist, Cricklewood, N.W. Aged 66.

**SPOTTISWOODE.**—At 3 Cadogan Square, S.W., on February 8, Mr. George Andrew Spottiswoode. Aged 71. The deceased gentleman was the head of the well-known firm of printers, Messrs. Spottiswoode & Co., New Street Square, E.C., and brother of the late Mr. William Spottiswoode, the eminent scientist, who was Treasurer and President of the Royal Society. Mr. George A. Spottiswoode was a highly-esteemed employer, and was one of the leading laymen in the Church of England.

**TYRER.**—At New Brompton, on January 28, Mr. John Tyrer, late of the dispensary at the Royal Melville Hospital, Chatham. Aged 86. Deceased was a native of Worcester, and in his younger days was employed by a doctor, but he subsequently enlisted in the Royal Marines, and worked in the dispensary at the Naval Hospital for thirty-eight years. He was an enthusiastic naturalist, being a member of both the Rochester and New Brompton Naturalists' Societies. He particularly devoted himself to the botanical and entomological branches of natural history in his later years, and has bequeathed to the Rochester Naturalists' Society a magnificent collection of butterflies and moths. The late Mr. Tyrer's duties in connection with the Melville Hospital made him responsible for the despatch of the greater portion of the naval medical stores and drugs for the Crimean War.

**WILLIAMS.**—At Mold, on January 30, Mr. Edward Williams, chemist and druggist. Aged 72. Mr. Williams had been in business in Mold for forty years.

## New Books.

*Any book named in this list can be supplied post-free to any part of the world on receipt of the published price by the Publisher of THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.*

Braithwaite, J., Trevelyan, E. F. *Retrospect of Medicine* Vol. 118.  $7\frac{1}{2} \times 4\frac{1}{2}$ . Pp. 456. 6s. 6d. (Simpkin.)

Brothers, A. *Photography: Hist., Processes, Apparatus, Materials, Working Details.* Illus.  $9\frac{1}{4} \times 6\frac{1}{4}$ . Pp. 386. 21s. (Griffin.)

Cole, R. S. *Treatise on Photographic Optics.* Crown 8vo. Pp. 336. 6s. (Sampson Low.)

Ferguson, A. *Buyers' and Sellers' Guide to Profit on Return.*  $8\frac{1}{4} \times 6\frac{1}{2}$ . 15th ed. (Erfingham Wilson.)

Henslow, G. *Medical Books of the Fourteenth Century.* With a list of plants recorded in contemporary writings. 4to. 21s. (Chapman.)

Kentish, T. *Complete Art of Firework-making.* New ed.  $7\frac{1}{2} \times 4\frac{1}{2}$ . Pp. 232. 3s. 6d. (Chatto.)

*King's American Dispensatory.* New ed. (18th). Entirely rewritten and enlarged by Professors Harvey W. Felter, M.D., and John Uri Lloyd, Ph.M. Vol. I. Roy. 8vo. Pp. 950. Cloth. \$4.50. (Cincinnati, 1898. The Ohio Valley Company. English agents, Potter & Clarke, 60, 62, and 64 Artillery Lane London, E.)



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The Pharmacy Bill, 1899.

*Its Conception.*

NOTHING could more effectually illustrate the unsatisfactory  
condition in which our pharmaceutical politics are now  
served up to us than the introduction of the new Bill to  
amend the Pharmacy Act last week. On first reading the  
draft we described the revolution proposed to be effected by  
the second and third clauses as "tremendous"; curiously



enough the Council's own official organ, whose conductors had longer time to consider their bearing, used the same adjective in referring to these proposals. Setting aside, for the moment, the question of the wisdom or otherwise of weighting the company-fight with such an additional burden, no one can help seeing that to throw a scheme of such import at the Lord Chancellor, or at the trade, without any word of argument in its favour is little else than contemptuous mockery. The Lord Chancellor is asked to support in Parliament a monopoly of such a character as the laws of England have not sanctioned for centuries. Chemists, on the other hand, are called upon to throw away a large proportion of their business property in order that, like the dog in the fable, they may try to seize the unsubstantial shadow presented before them. Surely the twenty-one gentlemen who have asked us to embark on this enterprise should give us some sufficient reasons for engaging our loyal services. It does not seem possible that they could all have been in harmony in regard to the several propositions of the Bill. It would have been of interest, and it might have been instructive to some of us, to have had the opportunity of learning the arguments which may have converted opponents or convinced doubters. None of these are allowed to be reported. The leaders, on whom will devolve the duty of engineering the measure, if it should ever come before either House of Parliament, must have formed some estimate as to the possibility of success. But they have not thought it worth while to encourage those who will be called upon to assist with any of these anticipations. And yet, let it be remembered, the proceedings of the Council are in theory open and public. The Council resolved in 1879 to admit reporters to their meetings.

Practically the will of the Society in this respect has been ignored for years. We presume there must have been some discussions before the Bill got into its present shape. There must have been objections to some of its clauses, suggestions for the addition of others. The pretence of absolute unanimity does not deceive anyone. It is simply impossible for a score of intelligent men to think exactly alike on a controversial subject of this kind. How could any harm result from the fullest report of the discussion which we pay the Council the compliment of assuming must have taken place before this extraordinary Bill was authorised?

This practice of concealing individual opinions and making public only the collective result has been gradually developing ever since the Society demanded that the proceedings of the Council should be reported. After these years of practice the art has now been perfected, with the result that we should know nothing of the reasons which dictate the policy of our little Parliament if it were not for occasional after-dinner speeches. We are not surprised at this disposition. All representative bodies tend that way. Unless checked by a strong and healthy public opinion, the delegated governing-power soon finds its way to a Cabinet, the secrecy of which is its principal charm as well as the essence of its power.

We do not suggest that there are no subjects coming within the scope of the Council's consideration which are not more properly dealt with in committee than before reporters. But certainly this is not one of them. If the claims put forward in this Bill are just and reasonable, the grounds on which they are made cannot be too widely published. But if, as is cynically suspected in certain quarters the only object has been to meet the demand of the new guinea-subscribers for some solid legislative benefit, the reason of that secrecy is not far to seek. We do not wish to charge the Council with insincerity, though we cannot bring

ourselves to believe that any one member seriously believes in the possibility of succeeding with the Bill he has endorsed. If the suspicion we have alluded to is unjust, the Council have only their own policy to thank for it.

### *Its Character.*

We are not among those who think that a draft of this kind should be submitted to the members of the Society generally for discussion before being adopted. This is a proper responsibility for the Council to assume. No action would ever be possible if every question were submitted to a plebiscite before a decision could be arrived at. We have been watching the signs of the times ever since the lucky success of the Pharmaceutical Society in Parliament last year; we have seen the violent efforts of the tail that wags the dog, and we noted that minor members of the Council, and certain officials of the Society, were starring around encouraging the efforts of the tail. But we noted that the orators always "hedged" by informing us that they were only speaking in their individual capacity; and we were entitled to anticipate from long past experience that their exuberance would be rigidly controlled when it became a question of committing their more staid colleagues to the more or less wild-cat policies they had enunciated amidst such hearty applause at provincial meetings. But this time we were in error—there has been no curb-rein; Mr. R. Lord Gifford has dictated the policy of Bloomsbury Square, and the Blackburn Association, whose modesty a little while ago would have been satisfied with annexing the Liverpool, Manchester, and other Lancashire Associations, has now swept the country.

We had hoped that a simple Bill challenging the unjust invasion of pharmacy by unqualified companies was to be at last produced. We had hoped that this would have been a rallying-point for the whole trade; and there was fire enough in the trade and reason enough in their contention to have made the fight a serious one, whether it were ultimately successful or not. But yoking with this contention a demand for monopoly in the sale of medicines and a surrender of the widows' clause must shut off the zeal and energy of many who would otherwise have been the best supporters of the scheme.

Like the Lord Chancellor, many of us are prepared to devote time and energy for a Bill which "there appears a reasonable prospect of proceeding with." But to attempt to win on the company clause, with the monopoly sections hanging to it, would be like hoping to win the Derby with a horse harnessed to a waggon. Surely it needed a peculiarly perverse genius to thus a second time render the Lord Chancellor's friendly assistance impossible, and, at the same time, to hand over to the men we were going to fight a weapon which they only too well know how to take advantage of. It will be seen from interviews printed elsewhere that the Bill positively pleases the limited-company side of the trade.

### *The Irish Protest.*

In a letter that we publish further on the President of the Pharmaceutical Society of Ireland complains with a bitterness which is not unjustified of the indifference shown by the London Council to the strenuous efforts which the Irish Society has been making against company-pharmacy. If we begin recriminations on the basis of "Who repealed the Union?" in pharmaceutical politics Mr. Downes's case is a weak one. But to ignore an ally of such tenacity, combativeness, and influence (for probably the Irish Society could command more votes in Parliament than we could) is, to say the least, defective generalship. The contest with the companies, if undertaken at all, would need at least the



combined strength of the pharmacists of the United Kingdom. It would have to be conducted by men who were thoroughly earnest in respect of the object of the campaign; and it could not be won by an expedition with a miscellaneous assortment of purposes. Everything goes to prove that the Pharmaceutical Council, in putting their hands to this work, have done so in a merely perfunctory manner and without any of that fixed determination to win which alone would give them a chance of success.

## The Council Election.

FOR the first time in its history the Council of the Pharmaceutical Society of Great Britain asks seven members only to be elected in May next, those who retire being Messrs. Bottle, Carteighe, Harrington, Harrison, Park, Southall, and Young, all of whom are eligible for re-election. The Act of last year provides that "the seven members who go out shall be the members who have been longest in office without re-election." Mr. Harrington is the member who has been the shortest period in office, but he took the place, by vote of Council, vacated by Mr. Hampson, and the charter says that a "person so appointed shall be taken in all respects as regards the duration of office to represent the person in whose stead he is appointed." One good thing which is to result from the smaller number retiring is that there is likely to be a brisk competition for the vacancies. There is a strong feeling in some quarters that this is a good opportunity for placing seven chemists and druggists on the Council as a preliminary step to its ultimate regeneration, and a "ticket" will be prepared for the guidance of advanced voters. Apart from this, however, we hear of candidates who are not connected with any party, and who are prepared to run independently. One thing lacking is a declaration of policy. We may take it that the retiring candidates would, if returned, maintain the traditions of the office, which include dignified isolation in respect to other British pharmaceutical bodies. We have failed to extract from any aspirants to Council chairs any clear notion of what they will do on the Council which is not already done, and it would be well that they should make up their minds before their names come before the voters, as, for example, how they will act in respect to the following matters:

Open discussion of important subjects affecting trade interests.

Redistribution of the work of the Council, so that it may not fall chiefly upon the President and Vice-President as at present.

Business-like consideration of the company-pharmacy question in association with the Pharmaceutical Society of Ireland.

Early consideration of the proposal to divide the Minor examination, so that candidates may be encouraged to spread their studies over a longer period.

The need for inquiring into the dispensing and sale of poisons elsewhere than in the open shops of registered chemists and druggists.

Extension of the poisons-schedule.

These are matters which more or less directly affect the trade which has enriched the Society, and which have been too long neglected. The Council has of late been degenerating into a body for regulating the Society's affairs, which is a safe line of inaction, but the trade deserves more from those charged by the State with the administration of the Pharmacy Act, and if new men are to go into the Council they must show the voters that they have the grit to initiate new departures.

## Shipping-rates.

IN our issue of January 21 we called attention to certain inequalities in the freights charged to British and German shippers of merchandise to colonial ports, especially South Africa, or chargeable to the consignees, which is the same thing so far as the incidence upon British trade is concerned. As the matter is likely to be discussed in Parliament during the present Session some further particulars in regard to the shipping-ring and its doings are opportune. Seven firms and companies run vessels from this country to South African ports—viz., Donald Currie & Co., the Union Company, the Clan Line, Bullard, King & Co., J. T. Rennie, Sons & Co., Cayzer, Irvine & Co., and Bucknall Brothers. For some years these concerns have equalised freights to 40s. per cubic ton, and their interests in regard to these have been pooled. The ring controls all steamers and almost all sailing-vessels which ply between the United Kingdom and South Africa. When a monopoly was thus established the organisation devised a rebate-scheme which practically amounts to placing a premium of 10 per cent. (called primage) upon the ordinary freights, and paying this back when certain conditions are fulfilled. These conditions require exporters not to ship goods directly or indirectly by any vessel not controlled by the ring. If this is adhered to, the 10 per cent. paid within the preceding half-year is refunded. On the inception of the arrangement the rebate was 5 per cent. (the primage being 10 per cent.), but owing to the formidable opposition of the Bucknall line, which was not then in the combination, the rebate was advanced to 10 per cent. If it is found that any ring customer has shipped or been a party to the shipping of merchandise by outside vessels, the primage paid is forfeited, and thus there has accumulated a reserve believed to amount to thousands of pounds. For some time past a section of the customers have grown restive, and, as an outcome of their discontent, the South African Mercantile Association has been formed for protection of their business interests. The Association has asked Mr. Chamberlain to use his influence to get a Parliamentary Committee appointed to inquire into the working of shipping-rings, but he has intimated that it is not for the Government to take the initiative.

Accordingly Mr. H. Cross, M.P. for Bolton, is to bring the matter forward during the present Session. The Association emphasises the fact that the Castle and Union lines receive a subsidy of 96,000*l.* a year (divisible between them) paid by Cape Colony for carrying the mails. The contract expires on September 30, 1900, and the Association is endeavouring to get the Cape Government to put up the new contract to open competition, and to exclude companies which adopt the rebate system. Sir Donald Currie has declared that such an attempt at exclusion would be inoperative; that the majority of Cape shippers are satisfied with things as they are; and that in 1875, when the Cape Government tried to adopt a similar procedure, the Union and Castle lines declined to compete, and the clause had to be withdrawn. It should, however, be clearly understood that this is not a matter which concerns shippers solely. So far as the drug-trade is concerned the shippers who pay freights are in a minority, consequently it is the buyers in South Africa who are most concerned about the freights, and there is evidence that the differences in freights between Germany, the United Kingdom, and the United States respectively and South Africa are sufficient to favour orders being placed elsewhere than in this country. Instances of this kind have been occasionally reported to us from the Cape. We are told, for instance, that goods can be shipped from the inland industrial districts of Germany by the Hamburg East Africa



Company at any rate which this company may specify. For example, the through rate for goods from Pinneburg, in Holstein, to Durban, Natal, *via* Hamburg, is 15s. per ton under the rate from Hamburg itself. We do not, of course, blame this upon our shipping-ring: it is owing to the through-rate system of the German State railways, which covers not only a preferential railway rate, but includes in addition a preferential sea-freight. Austrian and Swiss goods, amongst others, enjoy the same advantages, so that, as the Hamburg rate is the same as from London, German merchants and manufacturers have only to give their goods a little railway journey in order to reap a distinct advantage; indeed, British shippers have successfully performed the trick of shipping to Hamburg, thence *via* an inland town to Delagoa Bay, and have saved 8s. per ton over the Hamburg rate. United States steamer competition to South Africa was placed on a regular basis by some of the leading members of the British ring, who, while charging high rates here, were actually loading steamers in America for South African ports and running them a longer distance at much lower freights. The Cape Town Chamber of Commerce exposed this scandal, with the result that the American rates were raised, but not to the British level. When this came out an opposition line was started, and has been successful in reducing the current American rates considerably.

Another instance may be cited which shows very plainly the serious effects of the shipping discrimination upon British goods. A firm in Australia ordered certain goods from an English firm, and a similar lot of goods from America. By the irony of fate, the American goods were shipped *via* England, and reached their destination in the same vessel as the English goods. But, although the American goods had been carried 3,000 miles more than the English, and had been transhipped, the freight on them was actually 2s. 6d. per ton less than that on the British goods. As the greatest carrying nation in the world, such anomalies as these are not conducive to our commercial prosperity, and it is certainly not desirable that our shipping-interests should be fostered at the expense of the mercantile, hence any movement which will bring about amelioration of the present conditions deserves the attention of our exporting houses.

#### OUTSIDE EXPLANATION.

A correspondent of the *Westminster* explains the proposals for a new Pharmacy Bill which the Pharmaceutical Council have formulated. The correspondent is rather hard upon the Lord Chancellor in saying that the Bill is drafted at his suggestion. He certainly invited something dealing with limited-company pharmacy, but he did not suggest to the Pharmaceutical Council that they should formulate a monopoly clause, or the clause to enforce the sale of chemists' businesses on their death. The *W. G.* correspondent does not mention the latter clause at all, but he points out that the monopoly clause "is more stringent than the law of France and Germany." In this connection we may note that there is no country in the world where the sale of medicines is in the hands of qualified pharmacists only, and, in regard to the winding up of the estates of deceased chemists, we would point out how loosely the Pharmaceutical Council's Bill has been drafted. In Clause 5 the phrase "actually in business at the time of his death" might be made to embrace any business, other than the exemptions of Clause 4, in which a registered chemist may be engaged at his death. We presume the Council mean "actually in business" as such.

#### MOXA FOR LUMBAGO.

Mr. Savage Landor, in a lecture at the Royal Institution, on his Thibet experience, mentioned that "Of one of the

strangest remedies he saw applied, an old man, presumably suffering from lumbago, was the victim. The medicine-man had him stripped and bound, and then proceeded with much ceremony to fasten a number of cones of inflammable material round his patient's waist. These he ignited, with the result that the man had a girdle of severe burns." Mrs. Isabella L. Bishop says, in the *Times*, that this method of treatment, well known as the *moxa*, is not by any means peculiar to the Thibetans, but is very extensively practised in Japan, China, and elsewhere. The "inflammable material" consists of very slow-burning cones of the "wool" of a very common species of artemisia. The burns are superficial. The *moxa* is resorted to for rheumatism, lumbago, inflammation of joints, and for many ailments for which we should apply blisters. In Japan thousands of the peasantry resort to it every spring with the view of dispelling "humours." Mr. J. S. Ragland Phillips, Headingley, Leeds, supplements Mrs. Bishop's statements by referring the *Times* to an interesting essay by Sir Willam Temple (Swift's patron and Dorothy Osborne's husband) on *moxa* as a remedy for gout. He found the burning of *moxa* on the affected joint entirely removed the pain. The article is in Swift's edition of Temple's works.

### Business Changes.

*Notices of changes in the retail trade, and opening of new businesses, are inserted in this section free of charge, if properly authenticated.*

MR. OLIVER L. JACKSON, of Blackpool, has disposed of his branch-pharmacy at Adelaide Place to Mr. Sexton.

MR. JOSEPH ROBINSON has disposed of his business at 334 Alfreton Road, Nottingham, to Mr. James Stephenson.

MESSRS. B. WATERHOUSE (LIMITED), chemists, Sheffield, are opening a branch-shop at 89 Abbeydale Road, Sheffield.

MR. G. W. HARRIS, chemist, 78 East Road, Hoxton, is about to open a branch establishment at 50 Queen's Road, Ramsgate.

MR. J. W. GREENWOOD, chemist, Blackpool, has purchased the branch-pharmacy recently carried on by Mr. J. C. Stevenson at The Pavement, Todmorden.

MESSRS. LEATH & ROSS have removed from 9 Vere Street, W., to more convenient premises at 58 Duke Street, Grosvenor Square, W. (three doors from Oxford Street).

THE business recently carried on by Mr. Herbert Woodcock, chemist, at George Street, Croydon, has now been transferred to the Co-operative Drug-stores, 77 High Street, Croydon.

MR. ARTHUR WATT, chemist, 35 St. Leonard Street, Edinburgh, is opening a pharmacy at 65 Newington Road. There is already a large number of chemist's businesses in the district.

MR. CHARLES RUNDLE, who has recently concluded a fourteen years' partnership in the firm of Messrs. W. Hooper & Co., Russell Street, Covent Garden, W.C., has purchased the cash drug-stores lately carried on by Mr. A. Holmes, of Walthamstow.

MR. DAVID HODGETON, who for over forty-seven years has carried on business as a pharmaceutical chemist in Brechin, has disposed of his business at 8 High Street to Mr. John Hutton, who has been for ten years with Messrs. Duncan, Flockhart & Co., Edinburgh.

THE LONDON COUNTY COUNCIL have again retained Dr A. C. Houston, M.B., for another year's bacteriological work at the sewage-outfall works on the Thames. The salary is 300*l.* a year.

WE observe that Professor Dewar has given another donation of 100*l.*, and Dr. Frank Clowes one of 10*l.* 10*s.*, to the fund for the promotion of experimental research at low temperatures in the Royal Institution.



## Legal Reports.

### Selling a Chemist's Business.

In the Lord Mayor's Court on Friday, before the Common Serjeant (Sir Forrest Fulton, Q.C.) and a jury, the hearing of the case of *Manners v. Pumphrey*—briefly reported in our last issue—was resumed and concluded. It was an action by Mr. Alfred Manners, chemists' transfer agent, of 76 Cannon Street, E.C., trading under the style of Judd & Manners, against Mr. Arthur Pumphrey, pharmaceutical chemist, formerly carrying on business at Burnham, Somersetshire, to recover 23*l.* 15*s.* commission which the plaintiff said was due to him from the defendant in respect of the sale of the defendant's business for 850*l.*

Mr. Lewis Glyn again appeared for the plaintiff, and Mr. Lowe for the defendant.

Mr. Glyn reminded the jury that the facts were shortly as follows:—On April 10 last year the plaintiff wrote to the defendant asking if he was willing to sell his business. After some correspondence the defendant wrote as follows: "I send you herewith particulars of my business, which I shall be glad if you will find a purchaser for on the terms stated at the foot of the form." The terms alluded to were as follows: "The business is placed in the hands of Messrs. Judd & Manners to sell on the distinct understanding that they will make no charge whatever unless a sale is effected to a client of theirs, to whom they have communicated particulars, in which case they are to be paid a commission of 5 per cent. on the first 100*l.*, and 2½ per cent. on the balance of the purchase-money." That document was dated June 20, 1898. On June 21 the plaintiff replied, thanking the defendant, and saying he might rely upon his (the plaintiff's) prompt and personal attention, and he trusted that a speedy sale would ensue. On receipt of those instructions the plaintiff sent out no less than fifty-eight sets of particulars.

The Learned Judge: The only question for the jury will be whether the introduction was effected through the instrumentality of the plaintiff.

Mr. Glyn: Not quite that, with deference, my Lord, because, although we may not have been actually the first to introduce, we may still have given particulars and advice to the person who ultimately bought. If we in any way brought about the sale we are entitled to the commission.

Continuing his address to the jury, Mr. Glyn said the plaintiff incurred considerable expense in connection with sending out the particulars. On July 13 the defendant wrote to him saying he had not then had any inquiries *re* the business as the result of putting it in plaintiff's hands for disposal, and that he would be glad to hear of a purchaser as soon as possible. The plaintiff had as a client a Mr. Hutching, who ultimately became the purchaser of the business, and who at that time carried on business at Ashby-de-la-Zouch. While arranging the sale of Mr. Hutching's business, the plaintiff said to him, "Are you going to buy another business? If so, I have got one which will just suit you. It is the business of Mr. Pumphrey at Burnham." Mr. Hutching did not seem disposed at that time to purchase the business, nor did he appear to know anything of it. That was on August 16, and the correspondence showed that on that very day Mr. Hutching communicated with the defendant with regard to the business. The defendant had been called upon to make an affidavit of the documents which he had in his possession, and he swore that he had not got, and never had, any other letter or document which referred in any way to this case except certain letters and documents which were set out in the affidavit. But in those letters no reference was made to the communication of August 16. Subsequently he stated that he had forgotten the receipt of that particular letter, and that he did not think it was material. On the next day (August 17) he (the plaintiff) communicated particulars to Mr. Hutching. He (counsel) admitted that the defendant had advertised his business previously. The next the plaintiff heard of the matter was the receipt of a letter from the defendant dated September 19, 1898, stating he had disposed of the business to Mr. W. F. Hutching as the result of an advertisement which he had inserted in *THE CHEMIST AND DRUGGIST*. The plaintiff, in reply, pointed out that he had introduced Mr.

Hutching, and asked that he might be informed of the amount of the purchase-money in order that he might render his account for commission. The defendant replied to that letter:—

In reply to yours of the 21st, Mr. Hutching told me that you had sent him particulars of this business, but that he had written to me in reply to my advertisement, so that you have no claim.

It was necessary to point out that if the plaintiff, who had been employed as an agent, put forward anything or in any way induced a gentleman to make up his mind to purchase the business, and he bought it in consequence of what the plaintiff had said, the plaintiff had earned his commission under the contract. The plaintiff replied, on the 23rd:—

We are most anxious not to become in any way offensive to you, and therefore advise you to consider the following facts—namely, that when our Mr. Manners was at Ashby-de-la-Zouch he personally introduced your business to Mr. Hutching, and recommended him to buy. Now, if Mr. Hutching knew of your business before that, why did he ask Mr. Manners to send on full particulars of it? Apart from this point, we claim our commission on the ground of having communicated particulars to the purchaser.

Counsel submitted that, having regard to the statements in the correspondence and the admitted facts, the plaintiff was entitled to commission.

Mr. Alfred Manners, the plaintiff, then gave evidence. After detailing the letters which passed between himself and the defendant, he said he had 150 copies of the particulars printed, and sent out 53 letters each containing a copy of the particulars. These set out that the gross returns of the business per annum were 1,178*l.* He further mentioned his conversation with Mr. Hutching at Ashby-de-la-Zouch.

Mr. Glyn: Did he say whether he was already in communication for the business, or not?—No, he did not. When I had explained all this to him he asked me to send him fuller particulars. I returned to town on the 20th and immediately sent him on the full particulars.

Mr. Glyn called at this point for a letter from Mr. Hutching to Mr. Pumphrey of August 16, but it was not produced. A letter dated August 20, from Pumphrey to Hutching, was read as follows: "I am sorry I have not been able to reply sooner to yours of the 16th inst., but have been very busy for the last two days." That showed, counsel submitted, that there had been a letter from Hutching to Pumphrey on August 16.

The plaintiff, continuing, said that, in his letter to Hutching of August 20, he stated that the net profits were not so large as he thought they ought to be if the business was properly managed, as they ought to come out at a little over 300*l.* a year. He added that the premises were good, and the rent was very moderate. He enclosed particulars with that letter.

Mr. Hutching: I never received that letter of the 20th.

The plaintiff, continuing, said that he sent an order to view subsequently to sending the full particulars. He heard nothing more until he received the letter of September 19 from the defendant. Having regard to the terms of his agreement and the fact that he put the matter before Mr. Hutching and sent him particulars, he claimed commission at the agreed rate.

Cross examined by Mr. Lowe, the plaintiff said he suggested that he was entitled to commission if he sent particulars to the purchaser before the purchase was completed.

Mr. Lowe: Then it would be immaterial whether another agent introduced the parties or whether they came into contact without any agent at all?—If another agent introduced the parties, I am quite willing to stand aside.

If another agent does the work, then, you make no claim?—If another agent does the whole work, I should make no claim.

But suppose the parties come together without the intervention of an agent at all?—Well, I consider that if I had done the work which I have done in this case I am entitled to the commission.

The work being the mere sending out of the particulars to a person who already knew of them?—No; the work being the sending of particulars and inducing the purchaser to buy, which I did in this case.



You do not dispute now that, in fact, the parties were in communication at the time you intervened?—I dare say they were; they told me so.

Do you know now that Mr. Hutching did, in fact, know of the business?—I know they say so.

You say in one of your letters: "Apart from this point you must remember that we claim our commission on the ground of our having communicated particulars to the purchaser. We say that we are entitled to the commission; if you should consider that we are not, then kindly let us know the agreed amount of the purchase-money, and we will submit the point to our solicitor in the usual way." The defendant, in his reply, asked for the date that you were at Ashby-de-la-Zouch. Do you mean to assert that, if two parties are in communication, and while they are in treaty, if you send particulars to the intending purchaser, you can claim commission if the purchase is effected?—I do assert it, but, as a matter of fact, I did more. I did my best to effect a sale.

You still assert that, if the parties are in communication, the mere sending of particulars entitles you to commission?—Yes, for this reason, that in a great many cases—one-half of my cases—they say "We heard of each other before."

Mr. Pumphrey asserts that, until Mr. Hutching communicated with him in answer to his advertisement, he had no communication with anybody whom you had written to?—I do not know any thing about that.

So far as you know there were no negotiations on foot by anybody you acted for excepting Mr. Hutching?—So far as I am aware.

By the Judge: His first communication to Mr. Hutching in this matter was, verbally, on August 16. In consequence of what passed then fuller and more complete particulars were sent on his return to London.

By Mr. Lowe: He was quite sure that Mr. Hutching asked him to send particulars. This was the first time he knew that he denied it. He might at that time have had the fullest possible particulars, but he might also want his (plaintiff's) opinion. Mr. Hutching asked him what he thought, and he (plaintiff) told him what he thought and knew of the business. He told him that he had sold it to Pumphrey—in fact, its history. August 26 was not the first occasion on which he sent particulars.

Mr. Lowe, in opening the case for the defendant, said that in order to find for the plaintiff the jury must first find as a fact that he found a purchaser. On August 6 the defendant, having unsuccessfully endeavoured to dispose of his business, inserted the following advertisement in *THE CHEMIST AND DRUGGIST*:—

West of England.—A healthy seaside town. Light retail dispensing business. Good class. Returns, 1,200*l*. Shop commodious, well fitted, well stocked. House convenient. Garden. Full particulars. Apply by letter, A. P., &c.

On the very day that advertisement appeared Mr. Pumphrey got an application from Mr. Hutching, who wrote to him and said: "Sir, having just sold my business here, I shall be glad if you will give me particulars of the business you are advertising in this week's *CHEMIST AND DRUGGIST*." He referred to wholesale houses who would answer any inquiries, and he asked for the lowest cash-price to an immediate purchaser. Directly Mr. Pumphrey got that letter he wrote back, on the 8th, to Mr. Hutching. That letter, and a letter that followed, both written before the 16th, contained the fullest particulars of the business, and there would be a conflict between Mr. Hutching and the plaintiff as to whether Mr. Hutching ever did, in fact, ask him for particulars of the business. Mr. Pumphrey, in his reply on the 8th, explained his reasons for wishing to dispose of the business, and gave further details. He added that the price he had been asking was 925*l*., but to an immediate cash-purchaser he should say 900*l*., which he believed to be less than the value of stock and fixtures. In answer, Mr. Hutching wrote, on August 9: "Dear Sir, I thank you for the particulars of your business, but notice that you do not mention the net profit per annum, or what amount of tea you sell per month. Lipton's does not bear much profit. . . . Do you think that Nonconformity would be a hindrance to me, from a business point of view? Is Burnham a place where the Established Church is very strong?" In his reply the defendant said: "The net profits of this business will be

between 250*l*. and 300*l*. About 60 lbs. of Lipton's tea is sold per week. As you know, it does not bear much profit, but it does bring people to the shop, and, as it is, nearly pays half the rent. I have had the business nearly six years. Trade expenses about 60*l*. or 70*l*. I myself am a member of the Society of Friends, and have not found my Nonconformity ever interfere with business. I have the custom of most of the Established Church clergy in the district." That was the correspondence that took place between the parties before August 9. On August 16 Mr. Manners casually mentioned to Mr. Hutching that the business was for sale, but, as Mr. Hutching was in communication with the vendor and had all particulars, he did not ask for any price or any particulars, and never used any particulars that were sent to him by the plaintiff. That he never asked for any order to view was admitted. He never, in any sense, had any recommendation from the plaintiff. The plaintiff never did anything which would entitle him to commission. Everything that was done was negotiated between the parties themselves, and he submitted that it was absolutely clear the plaintiff was not entitled to recover on the contract.

Mr. Arthur Pumphrey narrated what had occurred, and generally bore out counsel's opening statement. Cross-examined, he said he did not put it in the hands of any other agents, and he had not paid any commission at all. He had upon one previous occasion employed the plaintiff's firm. In his letter of August 16 Mr. Hutching did not say that he had heard anything about the business from anybody else.

Mr. Wm. Francis Williams Hutching also gave evidence in support of the defence. He said that, having disposed of his business at Ashby-de-la-Zouch, he replied to the advertisement Mr. Pumphrey inserted in *THE CHEMIST AND DRUGGIST*. On August 16 Mr. Manners, who had sold his business for him, went to Ashby-de-la-Zouch to make an inventory. At that time witness had been in correspondence with Mr. Pumphrey. He wrote to Mr. Pumphrey on August 16, but that letter was not written in any way in consequence of what Mr. Manners said. In the course of conversation in the evening, Mr. Manners said, "What are you going to do?" Witness replied that he wanted another business, and should prefer one in the west or south-west of England. He said, "I know of several down that way." Witness replied, "If you know of any that will suit me let me know about them, and I will consider them afterwards." Mr. Manners said, "There is one near Bristol. I disposed of it about the same time that you came here. The profits have been down. I cannot tell the reason why." Witness guessed that the one he was referring to was that of Mr. Pumphrey's. There was no mention made of the particular business—no name was mentioned. The conversation took place after the post had gone. Nothing that Mr. Manners said to him had any influence in inducing him to buy the business.

Cross-examined by Mr. Glyn: He was prepared to swear that when Mr. Manners was at Ashby-de-la-Zouch on August 16 he did not mention the name of the particular business to him. He gathered from the tenor of his remarks that it was Mr. Pumphrey's business that he was referring to. He did not remember whether he asked him if he thought the business could be made to pay better. He had some confidence in his judgment.

Counsel having addressed the jury, the Judge summed up, and the jury, after retiring, returned a verdict for the plaintiff for the amount claimed. Judgment was entered accordingly, with costs.

## Sale of Food and Drugs Act.

### CAMPFORATED OIL NOT B.P.

AT the Skipton Petty Sessions on Saturday, February 4, Inspector A. Randerson, of the West Riding County Council, prosecuted in a case against John Phillip, a grocer, of Embsay, near Skipton, for selling adulterated camphorated oil. The defendant was represented by Mr. G. M. Robinson, solicitor. The Inspector pointed out to the Bench that before 1839 no standard of strength had been laid down for camphorated oil, but in 1897 notice was given to the wholesale dealers, through *THE CHEMIST AND DRUGGIST*, that a standard would be fixed. Mr. Robinson objected to this statement on the ground that there was no proof that notice



had been given. Mr. Randerson said he could prove that notice was given through THE CHEMIST AND DRUGGIST, and that the firm Mr. Robinson represented was one of those so informed. Continuing his evidence, the Inspector said on February 2 he visited the shop kept by the defendant and purchased three bottles of camphorated oil. Having explained the purpose for which he required the oil, he offered to divide them as usual, but the defendant refused. The samples were sent to the Public Analyst, whose report certified that the sample contained 14.2 per cent. of camphor and 85.8 per cent. of olive oil. The B.P. directed that 21 per cent. of camphor be used in the preparation. The Analyst further observed that as camphor is the active ingredient of camphorated oil, a preparation containing only two-thirds of the normal proportion of camphor would be less active, remedially, than a preparation of full strength. Cross-examined: The defendant told him when he purchased the bottles that they were sold in the same state as that in which they were received.

Mr. Robinson questioned the authority of the B.P., in reply to which the Inspector quoted from the Medical Act of 1858, section 54, which states that

The General Medical Council shall cause to be published under their direction a book containing a list of medicines and compounds and the manner of preparing them, together with the true weights and measures by which they are to be prepared and mixed, and containing such other matter and things relating thereto as the General Council shall think fit to call the British Pharmacopœia; and the General Council shall cause to be altered, amended, and republished such Pharmacopœia as often as they shall deem it necessary.

Mr. Robinson suggested that it merely amounted to a recommendation.

The Inspector added that the matter had been decided in a higher Court, and he quoted the case of *White v. Bywater*, where a chemist had been convicted for selling tincture of opium deficient in strength as compared with that prepared according to the B.P.

Mr. Robinson asked if the Inspector could consider the case a very serious one if it were proved that the article was manufactured before the Act came into force? Did he suggest that a chemist must go over the whole of his stock after the issue of a new Pharmacopœia? Had he to test every article?—The Inspector pointed out that several months had been given in which to clear out old stock. The wholesale traders ought to call in their stock, and not get the small trader into trouble.

Mr. Robinson argued that after the wholesale dealer had sold the article and been paid for it the matter was entirely out of his hands.

The Chairman (Captain Preston): They must throw it away.

The Rev. L. B. Morris (from the Bench): They cannot continue to sell anything which is not legal.

Mr. Robinson observed that the Magistrates sitting in that court during the preceding year were pleased to fine several people for not having saffron in rhubarb. According to this year's issue of the B.P. saffron was not required in rhubarb. It would be a hardship on the country trader if he were compelled to go through his stock every year and see that it compared with the B.P.

Mr. Illingworth (from the Bench): It is not a question of hardship, but of legality.

Mr. Robinson, in defence, put forward the plea that, as the Inspector did not make an offer to divide the samples, the prosecution was void. He stated that the camphorated oil was bought in Skipton several years ago, and had been in the defendant's possession ever since. Under the circumstances he asked that the penalty might be a very small one. After evidence by the defendant and his wife, who denied that the Inspector ever offered to divide the samples, the Magistrates considered the case proved, and imposed a fine of 5s. and costs.

### County Court Cases.

#### RESPONSIBILITY FOR POISONING A DOG.

THE adjourned hearing of the case against a constable named Elliot and Mr. Joseph Roberts, chemist, Newcastle, for alleged wrongful destruction of a valuable dog, was held

at Newcastle County Court on January 27. Particulars of this case were given in our issue of January 28 (page 186), and, after further evidence had been heard, judgment was given for the defendants, with costs.

#### "THE PENNY TRAITOR."

IN the City of London Court on Monday, before Mr. Commissioner Kerr, Henry Kemshead (Limited) sought to recover 26*l.* 7*s.*, the balance of 154*l.* 10*s.* 6*d.*, for work done and materials supplied to the defendants, Mr. Henry W. Plews, chemist, 14 Basinghall Street, E.C., Mr. Edward Harvey, 17 and 18 Basinghall Street, and Mr. E. K. Law, Bow Lane, peach-bitters merchant, all of whom were said to have been trading as "The Penny Traitor Company." Law had not been served.

Mr. Germaine was counsel for the plaintiffs, and Mr. Frank Gower for Plews and Harvey.

The plaintiffs' case was that the three defendants had invented an advertising-device called "The Penny Traitor." It was formed of two pieces of cardboard, with a small hole at the top. Into the hole was inserted a feather. It was claimed for the invention that by holding it to a strong light, and putting the hand before it, an optical illusion could be produced, the effect being similar to that obtained by the use of the Röntgen rays. It had two names: one was "The Penetrator," and the other was "The Penny Traitor." The defendants gave the plaintiffs an order to print 250,000 of the design. The work was done, and the defendants had paid 128*l.* on account, but would not pay the balance. They said the goods were not delivered in time, and consequently were not worth what they would have been if they had been delivered when wanted. It was also alleged that printing was delivered in huge sheets instead of cut up.

Mr. Commissioner Kerr referred the matter to the Assistant Registrar.

#### CARBOLATED VASELINE.

AT Lambeth County Court, on February 3, William Bartholomew Wood, a music-hall artiste, sued J. Healy, Henry Thos. Luff, and Mary Maria Healy, carrying on business as chemists and druggists at 151 Kennington Road, to recover damages, laid at 50*l.*, for pain and suffering caused by the defendants' negligence.

Mr. Cohen, for the plaintiff, said he was a well-known music-hall artiste, and in November last was fulfilling an engagement, with his partner, Mr. Shephard, at the Palace Theatre. On the 25th he and his wife purchased from defendants' shop a 6*d.* bottle of carbolated vaseline. There was too much carbolic in it, and the result was that when Mr. Wood applied it to his face, he was dreadfully burned. Mr. Wood was an American gentleman, and after the accident rushed to the shop to pull it down. (Laughter.) Fortunately, the place was closed, and no one came in reply to his knocks. (Laughter.)

Mr. Wood having given evidence to this effect,

Mrs. Wood corroborated. When her husband used the vaseline he gave vent to expressions she would not like to repeat. (Laughter.) All that night he was in terrible pain, and complained that the stuff was eating his face away.

Dr. Barratt, of New Bond Street, stated that if Wood had commenced at the top of his face instead of on his chin, he would probably have lost his sight.

During the further hearing of the case, it transpired that the vaseline was carbolated by a young man who has been only six months qualified. The other assistant, who was unqualified, stated that he acted under the directions of Luff, whose registered address is a private house in Peckham Road. Replying to Judge Emden, Luff stated he visited the shop almost every day.

Dr. Langsdon, for the defence, said he doubted even if pure carbolic could do the injury sworn to. Theatrical persons were prone to skin affections.

Judge Emden: I do not see actors with skin affections.

Witness: Perhaps you do not see them when they are old. Of course, they are all right if they take care of themselves.

The jury returned a verdict for the plaintiff, with 20*l.* damages.

Costs were given on the higher scale.



## Bankruptcies and Failures.

*Re* FRANCIS ROBBINS, Cambridge House, Castle Fields, Shrewsbury, Cattle, Spice, and Food Manufacturer.

The statement of accounts in this failure show debts amounting to 623%, and assets estimated to realise 501%. At the examination at Shrewsbury on February 1 the debtor stated that he had over-estimated his assets to some extent. He commenced business in Shrewsbury in 1873 with a capital of 150%. Since 1884 it had not gone so well owing to agricultural depression. He had been in difficulties since 1889, and last year lost 270% on the trading alone, irrespective of interest on loans and household expenses. He had been a regular customer of Gordon, the money-lender, from whom he had borrowed 900%, had paid back 1.080%, and still owed 140%. If he had not dealt with Gordon he might now have been solvent.

*Re* TIMOTHY MURPHY (trading as J. & J. Murphy), 7 and 8 Adelaide Street, Cork, Mineral-water Manufacturer and Wholesale Bottler.

The following are amongst the creditors of this petitioning debtor:—

|  | £   | s. | d. |
|--|-----|----|----|
| Aërated Beverage Company, Wrexham ...    | 4   | 11 | 6  |
| Bowden & Coombe, Toines ...              | 12  | 14 | 11 |
| Bush, W. J., & Co., London ...           | 9   | 16 | 7  |
| Duckworth & Co., Manchester ...          | 8   | 18 | 1  |
| Glass-manufacturing Company, Newport     | 6   | 1  | 8  |
| Irish Glass-bottle Company, Dublin ...   | 15  | 0  | 0  |
| Manchester Chemical Company, Shudehill   | 1   | 19 | 4  |
| Murphy, J. J., & Co., Cork ...           | 239 | 2  | 2  |
| Powell & Ricketts, Bristol ...           | 20  | 0  | 0  |
| Saccharine Corporation (Limited), London | 1   | 18 | 0  |
| Wheatley & Bates, Sheffield ...          | 8   | 2  | 0  |

## Gazette.

### PARTNERSHIPS DISSOLVED.

Burwood, T. W., and Searson, J., under the style of Burwood & Searson, Ealing, physicians and surgeons.

Strachan, B., and Campbell, A., under the style of Strachan & Campbell, Monkwearmouth Shore, physicians, &c.

### THE BANKRUPTCY ACTS, 1833 AND 1890.

#### ADJUDICATIONS.

Blore, Henry Lessey (trading as Jonathan Brown & Co.), Manchester and Blackpool, chemist and drysalter.

Brigstocke, James, Carmarthen, chemist.

Buckland, Edwin (trading as Ted Buckland), Sutton-in-Ashfield, proprietor of drug-stores.

Parker, Alfred Henry, Grove Road, late Roman Road, Bow, E., registered medical practitioner.

## Trade Notes.

MESSRS. DOWNER & Co., 79 Donegall Street, Belfast, are the appointed agents in Ireland for Messrs. Beaufoy & Co., pure malt-vinegar brewers and British wine and cordial manufacturers, South Lambeth, London.

THE NATURAL FOOD COMPANY (LIMITED) have put Dr. Allinson's food and other preparations on the P.A.T.A. list. The novel conditions upon which these goods are offered were referred to in our issue of January 30.

OWING to Messrs. A. E. Whittome & Co., of Auckland, having relinquished the drug portion of their business, the agency which that firm held for Messrs. Ayrton & Saunders, of Liverpool, has been transferred to Messrs. Ellis, Sellgren & Co., Elliott Street, Auckland, N.Z.

ERASMIC PERFUME.—The proprietors of Erasmic soap are making an offer to the public that they will give, in exchange for Erasmic-soap wrappers, free samples of Erasmic perfume, on a scale of which particulars are set forth in our adver-

tising columns this week. Chemists should write the firm about it.

WEATHER-FORECASTS interest everybody. Knowing this, the Chas. A. Vogeler Company, 45 Farringdon Road, E.C., publish an annual *Weather-forecast and Calendar*, and the edition for 1899 is now ready for distribution. Any chemist can get a supply, carriage paid, on application to the company.

ROSBACH WATER was "With Kitchener to Khartum," it appears. Mr. G. W. Steevens, in his fascinating, book says: "I sat down at table and ate of soup and fish, of ragout and fresh mutton and game, and was invited to drink hock, claret, champagne, whisky, gin, lime-juice, ginger-beer, Rosbach, and cognac, or any combination or permutation of the same."

POISON-BOTTLES.—Messrs. James Townsend & Son, of Exeter, write to us in regard to their suggestion for distinguishing shop-rounds for poisons, and send a sample bottle showing their suggestion. It consists in placing a band of red cardboard above and below the ordinary label, so that in the daytime the danger-signal may be seen, and in the night or a dark cupboard it may be felt directly the bottle is touched.

THIALION.—Messrs. Thomas Christy & Co., of 25 Lime Street, E.C., have been appointed agents for the Vass Chemical Company of Danbury, Conn., U.S.A., manufacturers of "thialion." This is a preparation of lithia, differing from most others in being laxative. Messrs. Christy & Co. inform us that they are now introducing it to the medical profession of this country, and will be glad to give chemists any particulars they may desire.

COLONIAL PENNY POSTAGE.—Although the public have been notified as to the limits within which penny letter-postage to British possessions and protectorates is applicable, many letters are still being posted prepaid only 1d. per  $\frac{1}{2}$  oz. to places not yet included in the scheme. The Postmaster-General has consequently issued an order that, since the issue of previous notices, Zanzibar, Burmah, and British Columbia are now included in the penny-postage scheme; but Australia, New Zealand, Cape Colony, Jamaica, Malta, and Mauritius are still on the same footing as formerly.

EARLY CLOSING.—The Voluntary Early Closing Association send us their eighth annual report and statement. The Association seems to have been financially successful during the past year, the receipts having been nearly double those of the previous year. The report is interesting reading, although, curiously enough, chemists do not seem to be existent in the Association's purview. In the list of shopkeepers in London, which is said to include all classes of shopkeeper represented by not fewer than 100 shops, they are not mentioned, but it is possible that in another part of the report they are included in "other trades."

FERRU-COCOA.—The Ferru-cocoa Manufacturing Company 329 Goswell Road, E.C., in sending us a sample of their Ferru-cocoa report that the sales are increasing daily, which they think is a good indication that the article is being appreciated. As most of our readers know, the novelty of the cocoa is in the fact that it contains a small proportion of an iron salt. There are also contained in it kola and malt in definite proportions. We have tasted Ferru-cocoa, and find it far from unpleasant; and judging by the testimonials given in a little booklet we received with the sample, it is used by all classes of the community, from colliers to clergymen.

COLOUR-PHOTOGRAPHY.—Since the *C. & D.* brought into prominence the effectiveness of the three-colour process of photography for commercial advertising, we have seen several good examples of its use. The latest comes to us from Messrs. Barnett & Foster, Niagara Works, Eagle Wharf Road, London, N., in the shape of a photograph in natural colours of their new pattern No. 2 Universal Lancashire soda-water machine. The copperwork is very effectively shown; the colourings and linings also come out capitally, giving the picture quite a stereoscopic effect. We understand the firm contemplate using the process more fully in future, as they find such photographs give a better idea of the machines they manufacture than do ordinary illustrations.



## Photographic Notes.

BY A PHARMACEUTICAL CAMERIST.

### DEKKO PAPER.

I think I am among the first dealers to stock the new printing-paper which Kodak (Limited) have just brought out. It is called Dekko paper, and differs from any paper this firm have introduced in that it can be developed and fixed in artificial light or weak daylight, and requires no dark-room. To give an idea of the exposure, I find that, at a distance of 6 to 8 inches from an ordinary gas-burner, an exposure of three to five minutes is required, the negative being, of course, of medium density. For development,

### METOL-HYDROQUINONE DEVELOPER,

of the following formula, gives nice blue-black tones:—

|                      |     |     |     |          |
|----------------------|-----|-----|-----|----------|
| Metol ...            | ... | ... | ... | gr. xvj. |
| Hydroquinone ...     | ... | ... | ... | 5j.      |
| Sodium sulphite ...  | ... | ... | ... | 3iss.    |
| Sodium carbonate ... | ... | ... | ... | 3iss.    |
| Water ...            | ... | ... | ... | 3xx.     |

Mix, and add to each ounce of developer 2 drops of a 10-per-cent. solution of potassium bromide.

If the developer is diluted, warmer tones are obtained. The developer which is recommended for sepia and browns is a somewhat novel one, as follows:—

### WARM-TONE DEVELOPER.

#### No. 1.

|                        |     |     |        |
|------------------------|-----|-----|--------|
| Citric acid ...        | ... | ... | 2½ oz. |
| Ammonium carbonate ... | ... | ... | 1 oz.  |
| Water ...              | ... | ... | 10 oz. |

#### No. 2.

|                    |     |     |          |
|--------------------|-----|-----|----------|
| Iron sulphate ...  | ... | ... | 2½ oz.   |
| Sulphuric acid ... | ... | ... | 10 drops |
| Water ...          | ... | ... | 10 oz.   |

For use, mix 3 parts of No. 1 with 1 part of No. 2.

The paper is made in a variety of surfaces, and sells at the rate of 27 pieces of quarter-plate size for 1s.

### PHOTOGRAPHIC VARNISHES.

The *Photogram* gives the following formulas, among others, for useful varnishes:—

#### Negative-varnish.

|                    |     |     |        |
|--------------------|-----|-----|--------|
| Orange shellac ... | ... | ... | 1 oz.  |
| Sandarac ...       | ... | ... | 1 oz.  |
| Canada balsam ...  | ... | ... | 30 gr. |
| Alcohol ...        | ... | ... | 8 oz.  |

Shake at intervals till dissolved, and filter bright.

The negative is strongly heated before applying the varnish. For a

#### Cold Negative-varnish,

the same authority recommends—

|                |     |     |        |
|----------------|-----|-----|--------|
| Gum dammar ... | ... | ... | 40 gr. |
| Benzol ...     | ... | ... | 1 oz.  |

Dissolve.

Another varnish of the same class is made by mixing equal parts of japanners' gold-size and benzol.

### ROSS'S CATALOGUE.

Messrs. Ross (Limited), opticians, 111 New Bond Street, W., have just issued their 1899 catalogue. Judging by the headings of the pages and the pagination beginning at 35, it is a reprint of their advertisement in the *British Journal Almanac*. A supplement sent with it deals with the new series of Zeiss's anastigmats (the Planar), and Ross's symmetrical anastigmats. They are catalogues which chemist dealers frequently have to consult, as Ross's lenses are always more or less in demand among wealthy amateurs.

## Optical Notes.

BY A CHEMIST-OPTICIAN.

### INVENTION OF SPECTACLES.

MR. ARTHUR DECK, Cambridge, writing to the *British Medical Journal* in regard to the invention of spectacles, calls attention to a painting of the Spanish school, attributed to Murillo, in the Fitzwilliam Museum, Cambridge, representing St. John the Baptist with the scribes and Pharisees, where one is represented wearing a pair of spectacles with thick tortoiseshell frames. This is, of course, a whim of the painter, as, although the origin of spectacles is clouded in mystery, it has never been suggested that they were in use in apostolic times. The invention of spectacles is generally attributed to Roger Bacon, towards the end of the thirteenth century, who, if not actually the inventor, led to their invention by his writings on optics. On the tomb of Carl Zeno, a Venetian statesman, it is stated that he died at the age of 84, in 1418, and never wore artificial aids to his sight. This is another way of saying that such appliances were then fairly common in Italy. In Newbery's "Dives Pragmaticus" (1563) spectacle-makers are mentioned, as well as spectacles made of bursal (rock-crystal), the latter in such a way as to suggest that they were a novelty. Airy, the astronomer, about 1827, invented cylindrical glasses, with which he corrected his own astigmatism, whilst periscopic glasses were introduced by Dr. W. H. Wollaston.

### REFRACTION-CHANGES IN DIABETES.

An interesting case of rapid changes in connection with diabetes was related by Mr. H. Grimsdale, before the Ophthalmological Society, last week. The patient was a woman of 45. When first seen on October 7, 1827, she was wearing for near vision R. sph. + 1 D. cyl. + 0.75 D.; L. sph. + 1.75 D. She had suddenly noticed a change in the power of her sight a few days before: distant objects became dim and near objects clearer. On testing V. was R.  $\frac{6}{60}$  - 2 sph. 6; L.  $\frac{6}{60}$  - 2 sph. 6, which result was confirmed by the shadow-test. In the R. lens there were several opacities near the centre; the L. lens was clear, but the nucleus in each was marked. The urine was examined, and contained 26 gr. of sugar to the ounce. In ten days the vision returned to its former condition; the right lens showed irregular astigmatism, but the opacities were unaltered. Three weeks afterwards the patient died with diabetic coma. The case is interesting on account of the development of myopia and its rapid disappearance. A similar case is reported by Risley, in which disappearance of sugar in diabetes was accompanied by the development of hypermetropia. The cause was probably a lenticular one; it was impossible to assume an alteration in position of the retina; it was not likely to be due to spasm of the ciliary muscle, as this would have involved a permanent spasm in the latter case, suddenly giving way and then reappearing.

### THE MEDICAL PRESERVES.

A London optician is advertising that his treatment of defective eyes is entirely successful. He says:—"Head-aches, neuralgia, pain in the eyes due to eye-strain, permanently cured. Eyes examined, sight tested, and all information free of charge." The *Medical Press* and *Medical Times* think this is poaching on their preserves. The *Times* says that in every degree to which opticians offer a benefit free of charge to the public there is an evasion of the Medical Acts, which hold out "reasonable charges" for the services to be rendered, as an inducement to young men to undertake a five-years' curriculum, to acquire the sole right to use the knowledge so obtained. The *Press* says the optician is using his Spectacle-makers' diploma to attract medical or surgical business, and calls upon the Master to at once withdraw the diploma. It is difficult to know what these papers want, as, according to their showing, a chemist who sells an artificial leg or hospitals who treat patients for nothing must be very black sinners indeed.

THE imports of bismuth and its salts into France during 1898 amounted to 544,000f., against 269,640f. in 1897.



## Correspondence.

*In writing letters for publication correspondents should adopt a concise, but not abbreviated, style. They are requested to write on one side of the paper only. Letters, with or without a nom-de-plume, must be authenticated by the name and address of the writer. Queries should be written on separate pieces of paper, and the regulations printed under the sections to which they apply should be strictly observed.*

### The Irish President on the Pharmacy Bill.

SIR,—May I ask space from you for an open letter to the Council and members of the Pharmaceutical Society of Great Britain? I am very loth to do so, but the plea of urgency will be manifest and sufficient to justify.

I have read carefully and with interest the report of meeting of your Council in the *Pharmaceutical Journal* of the 10th inst., and particularly the report of the Law and Parliamentary Committee which was adopted. I confess the weakness that I was disappointed when I found that Ireland and the Irish are as completely ignored as if the Union was already repealed. As an Irish leader I cannot help noticing this, while recognising to the full all that another Irishman has done for the bringing forward of the question in Great Britain, which was properly emphasised by all the speakers.

No doubt we all esteem our own methods and ideas perfect, and I may err in my estimate of those which have been chosen and adopted by the Council of the P.S.I.; but assuming a better has been found, I think it is hardly friendly to adopt that better one, and leave us digging away in our own trench, while you are pursuing an improved plan.

The P.S.I. has made one point of attack, and concentrated the attack so that we obtained an important expression of opinion, and even an attempt to meet it, in the House of Lords; this was due, I unhesitatingly claim, to the action of the P.S.I., for there was nothing in the Bill of the P.S.G.B. to promote it—on the contrary, it was a surprise to find it could not be fitted on that Bill. It was the action of the P.S.I. through a member of its Council that brought the G.M.C. to take action as it has done, and to endorse and emphasise our complaint. That they have endeavoured to draw a line between the professional and the trader is not unnatural, but that course has been strongly protested against by the P.S.I., which has claimed we must stand or fall together, and that the same law must apply in one case as the other; but as regards the two Societies it is fatal to have them aiming at different objects and adopting dissimilar tactics. If the lead of the Irish Council is not good enough to follow, at least let a lead be given that will be worth its while to follow. The aim of the Irish Council is to break down the ruling of the House of Lords, and to set up the barrier of the "lawful purpose" which exists in the Companies Acts, the amendment of the Companies Acts being under consideration of the Government. The P.S.G.B. go in for a Bill to get exclusive right of compounding prescriptions as against the public in general and the medical profession in particular. I ask, Is this attainable? And will Parliament, which will not place in the hands of the medical profession the exclusive right of giving advice, be likely to bar the public from mixing their own prescriptions? Would it not be wiser for the present to keep to the point of "keeping open shop for the purpose of selling, retailing, and compounding poisons and medical prescriptions"? After this one point, which is the *crux* in the matter of limited companies, is settled, the dispensing in public institutions could be unitedly attacked; but it is madness to mix it up with the shop-keeping question at the present time.

We have laid bare a scandal; the Government say to us, What remedy do you propose? We reply, It should be stopped by amending the Companies Acts so that they should not be applicable to professions or callings for which educational qualification is necessary unless the members are all qualified. They ask, Is the English Society interested

and does it agree? We say, Yes. We are told there are great interests opposed, and if it is taken up it means a big thing for the United Kingdom, and cannot be treated as a local matter. The next thing we learn is that the P.S.G.B. has adopted a line of its own, and wants a Bill to include additional privileges. Will not the Government play one against the other? Will they not say, Here is a scandal you both complain of, and you come to us, one asking one remedy and the other another? In the end we will all be left to work for separate Acts, or sit down biting our fingers or perhaps worse, saying to each other, "You did it."

I appeal to the Council and members of the P.S.G.B. not to mix up ambitions with the practical question now before us.

I am, Sir, yours truly,

ROBERT J. DOWNES,

67 Lower Mount Street, Dublin.

President P.S.I.

P.S.—The above was written in course of last week, but it was considered courteous to allow time for a reply from the President P.S.G.B. to a letter addressed to him. The reports in this week's *Journal* render further delay unnecessary.

I hope I may be able to congratulate the P.S.G.B. on the passing of their Act. I am conscious the steps of the Council cannot be retraced, and the publication of this letter only serves as a protest.—R. J. D.

February 4, 1899.

### The Pharmacy Bill.

SIR,—I quite agree with Clause 1, but foresee that it will mean a big fight to get it carried, and will require all qualified chemists to join hands. Clause 2 is too vague and far-reaching. However much we might wish for the sale of all medicines to be restricted to chemists, we cannot reasonably hope for restriction to go further than the compounding of prescriptions and sale of poisons medicines. While approving of the principle of Clause 5, I think the time might be extended to, say, two or three years, and the Society might be allowed discretion to extend the period in certain cases. It would be a very great hardship were there a son growing up in the business and it had to be sold within a few months of the time he might qualify. The jury-question should by all means have been tackled, and exemption of all chemists in business asked for; considering the increasing responsibilities of their duties, they are just as much entitled to exemption as doctors, dentists, or clergymen. It is an exceptional hardship on a man who is working his business single-handed, or without qualified assistance, when he is summoned to the distant county town, and perhaps has to be away from home several days. How can he supervise his business as the law requires? If the Society do not see their way to asking for all chemists to be exempt, they might, perhaps, go so far that all members of the Society in business should be exempt. I would like to suggest for consideration the principle of "One person, one shop." If this became compulsory we might, with equal justice, say "One company, one shop." We shall never do away with "cutting"; but if some such regulation as this was in force it would tend to keep it in bounds. Speaking of the unqualified dispensers for medical men, I think we should be bound to recognise the Apothecaries' Assistants' certificate as sufficient qualification for the work.

Yours faithfully,

PILLER. (179/3.)

SIR,—You invite opinions on the proposed Pharmacy Bill. I reply to one and all: please look up the number of the *C. & D.* for March 22, 1890.\* If the President and Council had responded to my "Nine points of the law," nine years of groaning might have been avoided, and by this time the trade would be flourishing. All was ready; at an expense of time and money, with a feeling of consideration for our downtrodden race, I undertook to emancipate them. I had a solicitor and M.P. at hand; however, our West-end brethren have lost the time and opportunity, and the sickness has at last become intolerable to them. It is a great satis-

\* On page 426 of that issue appears a letter from Mr. Farrer, entitled "One trade, one price," in which he advocated the establishment of a Chemists' Union, for the purpose of maintaining prices and preventing cutting stores or cutting chemists getting qualified assistants.—ED. C. & D.



faction to me that it is so. Now let me tell the framers of this Bill I consider it most unjust to endeavour to rob the widows of a livelihood which their husbands have worked for. There is no profession or trade in our country in which the law steps in and says, This shop must be closed; you are a widow, we will allow you to carry it on for a year and no more. Imagine a few men in London attempting such a proceeding against the widow of a surgeon or fishmonger, a tailor or an architect, a lawyer or a grocer, a draper or a wine-merchant, an ironmonger or a doctor, or any other man's widow. Evidently the President and his colleagues for the past nine years have experienced a tremendous falling-off in prescription business which they were bound to do something to remedy. Oppose this measure. The Council remind me of a line in an old song, "And leaves the wretch to weep," and they must weep on.

Yours respectfully,

Waterloo Pharmacy, Stroud,  
February 6.

R. S. FARRER.

#### *The Widows' Clause.*

SIR,—Will you allow me to make the following explanation? It is plain from several letters I have received this morning that my position regarding the widows' clause is misunderstood. If our law-agents consider it necessary for us to drop this clause, there is nothing more to be said. It is a very great sacrifice, however. There are a great many chemists throughout the country miserably poor, and it will be a considerable time before they are able to recuperate even if their position is ameliorated. Meantime, many of them will die, and their widows and orphans will be practically left without support. Pharmacy, however, has reached that pass in this country at which no necessary sacrifice is too great to be made in order that the field may be cleared of unqualified competition. I quite recognise the logical aspect of the widows' clause question. I have said from the beginning that the President [of the Pharmaceutical Society] must avail himself of the best legal advice he can get, and if he is assured that in order to reach success in legislation this clause must go, then it must go. I will certainly be no party to opposition from within. We are not in search of ground upon which to plant an opposition-tent, but we are in search of ground upon which we can all stand united and strong, with our front to the enemy. We mean to fight the enemy and we mean to beat him; but it will only be good generalship if we manage to beat him with as little loss to ourselves as possible. I am of opinion that we are all overestimating his strength. We must never forget that whatever the legal aspect of a case is in this country it is weak if its moral aspect is not right. The moral position of these unqualified men is, in my opinion, rotten, and their whole case will crumble down like an apple of Sodom when it is touched. We chemists have learned much during the last five years, but the community has learned more, and the whole position is fairly well understood now. I shall be much disappointed if we do not find far more sympathy in the House of Commons than any of us expects. Meanwhile, I heartily commend the spirit of our President and the men by whom he is surrounded in the Council, in that they have taken up this matter with so much vigour, and I trust that every chemist in the country will follow them with loyalty in the path which they have selected in accordance with legal advice. Although I remarked upon the difference in principle between a widow's business and a company's business, I had no thought of going over to the opposition; and I am almost sorry that, after all I have written regarding fresh legislation in trade journals and in the lay press, anybody should have thought so hardly of me.

Dumfries, February 6.

JAMES REID.

[Does Mr. Reid mean to say he is opposed this week to the principles which he supported last week? He is generally explicit; now he writes in a befogging way.—*Ed. C. & D.*]

SIR,—In their sweeping attack on company-pharmacy—and, in fact, on drug-companies in general—the Pharmaceutical Council will require all their forces, and they will not have a man to spare. It is therefore much to be regretted that at the very outset they should have split up

the chemists of the country into two opposite camps by proposing to abolish the "widows' clause." I have yet to learn that the lot of the present-day chemist is such a happy one that he can afford to throw away a valuable concession such as this clause undoubtedly is. During the thirty years it has been in force it has saved many a poor widow and her children from comparative poverty and want, whilst inflicting no injustice on anyone. The only argument that has been adduced against it is that it is illogical to expect Parliament to stop company-pharmacy so long as we retain this clause. This I beg leave to dispute. In the first place, as Mr. Reid has already shown in your columns, there is no analogy between a qualified chemist conducting a business for a widow and a so-called manager for a company, because, in the first case, the qualified man takes the place of the proprietor, in that he buys and sells and has practically the whole control and responsibility of conducting the business, whilst in stores the qualified man is, in most cases, little more than a cover, the actual manager and board of directors being unqualified; secondly, because Parliament, recognising the expenditure of time and money a chemist has been put to in qualifying to practise pharmacy, granted as a concession to his widow the right to carry on her deceased husband's business with a qualified manager, as being in many cases her only means of livelihood, it is surely illogical in the highest degree that seven or more individuals, having no connection whatever with pharmacy, should step in and claim the same privilege. So much for the logical side of the question. Even Mr. Atkins, the gentleman who talks of burning his boats and destroying his bridges, which from a military standpoint is deplorably bad tactics, admits that from the sentimental point of view there is something to be said for the clause. There is, for in every age and among all peoples—aye, even among savage tribes—the widow and the fatherless have ever been objects of sympathy and regard. It is only among the members of the Pharmaceutical Council that no one is found to plead their cause. It is not to be supposed or reasonably expected that "company-pharmacy," which for twenty years has grown up under the ægis and protection of the law as laid down by the highest court of appeal in the land, will consent to be wiped out of existence without a tremendous struggle. It is all the more necessary, then, if the Pharmaceutical Council are in earnest in promoting this Bill, that they should close up their ranks, and this I am confident they can only do by at once abandoning their attack on the "widows' clause," which I am persuaded the majority of my fellow-chemists throughout the country consider a just, a necessary, and a beneficent one.

Yours very truly,

Nottingham, February 7.

EDWD. GASCOYNE.

#### *The Grammar of the Bill.*

SIR,—The Law and Parliamentary Committee of the Pharmaceutical Society appear to be but indifferent grammarians. There are at least two errors in their draft Pharmacy Bill one of which might possibly affect the working of the Bill. In clause 1 "or" is improperly used for "and." "Or" is a connective offering an alternative; in fact, a doublet of "either." The clause should run thus: "In the construction of the Pharmacy Acts, and of this Act, the expression [why not "word"?] 'person' shall include a partnership, an association of persons, and a body corporate." The other error is not so serious. It occurs in clause 4, where "nor" is improperly used for "or." "Nor" is a doublet of "neither," and it is incorrect to say "nothing shall interfere with neither." A friend questions this statement, but its correctness will be seen if we invert the phrase. We certainly should not say "neither shall be interfered with by nothing." Lower down in this clause the words "the said Act" are ambiguous, two Acts having been previously mentioned in the clause.

I am, &c.,

Epworth, February 3.

C. C. BELL.

#### *Belladonna Plasters.*

SIR,—I have been in the United States since the action heard at Lambeth Police Court on December 22 last, in which the alkaloidal strength of certain of Johnson & Johnson's belladonna plasters was attacked, or I should have asked you before this to allow me to point out the unfairness of the Magistrate's criticism made in dismissing the sum-



mons, as reported in THE CHEMIST AND DRUGGIST of December 24, 1898.

Although no one can deny that the English Adulteration Act has been productive of much good, it is also very certain that it has occasioned grievous wrongs, and pressed cruelly on many innocent persons, and we are confident of receiving the sympathy of every right-minded person in protesting against an injury which was attempted to be inflicted upon us. The case alluded to was dismissed in consequence of the defendants having produced a warranty given by us that our plasters were always up to the standard of the British Pharmacopœia. The absolute truth of this warranty has never been, and never can be, successfully contested. The Police Magistrate who tried the case condemned us unheard, giving us no opportunity to prove (which we were fully prepared to do) that our goods conformed with the requirements of the B.P.

This might have been a serious matter, as nothing could be more damaging to our reputation than that confidence in the genuine and reliable character of our preparations should be shaken. Happily for us, Johnson & Johnson's preparations are so widely known and valued all over the world, that it may seem scarcely necessary to attempt to justify ourselves. But in case the remarks referred to may have left a shadow of a doubt in the minds of anyone, it may be worth while to show the utter futility of the charges.

All who have any acquaintance with the subject will admit (as was admitted by the analyst who was called by the prosecution) that the analysis of belladonna plasters is a very difficult matter. It cannot, in fact, be satisfactorily accomplished except by those who possess not only exceptional knowledge and skill in analysing, but also special knowledge and experience in the analysis of this particular article. The analyst on whose certificate this prosecution was based very candidly admitted that he had never analysed a belladonna plaster before. When we consider the vast amount of foods and drugs with which this gentleman has to deal in his official capacity, we cannot be in the least surprised that this particular article had not, during his experience, received a great amount of his attention.

On the other hand, analysts who superintend the manufacture of these plasters, and whom we had in court, possess not only the knowledge common to all first-rate analysts, but also have an intimate and special knowledge of the details connected with belladonna plasters, and are familiar with the most up-to-date analytical processes adaptable to its analysis, as it has been for years their whole work and study. The process used in this case by the analyst, commonly known as "Smith's," has been conclusively proved to be altogether unreliable, and has had to be abandoned in the United States and Canada.

[The writer of the letter here diverges into a rather lengthy commentary on the analysis of belladonna plasters, published by the Government of Canada, purporting to state the alkaloidal values of the plasters of various makers. He gives many reasons for disputing the competence of those analysts, but as this question is not involved at the present moment we omit that section of his letter.]

In future we shall give a warranty with every box of our belladonna plasters which we send out. This warranty will be much more definite and much more comprehensive than that given in the case which we refer to, as it will include an exact analysis of the plasters contained in the box. In addition to this we undertake to defend to the utmost any retailers who, in consequence of their having sold any of Johnson & Johnson's preparations, shall be charged with an offence under the Sale of Food and Drugs Act.

We desire to add that, although all belladonna plasters of Johnson & Johnson's manufacture are guaranteed to be of the alkaloidal strength of the B.P. for 1898, we have grave doubts as to the wisdom of fixing such a high alkaloidal strength for these plasters, especially when we all know that they are sold indiscriminately as a commercial plaster over the counter without a doctor's prescription.

In conclusion, we may, as laymen, be permitted to express our views as to the manner of the hearing of the case referred to. While no one expects to find Solons on the village benches, yet we may fairly ask for men of common sense and discretion. One plain rule for their guidance is to hear both sides. Another, to give no opinions on questions not in dispute, and of which they are totally ignorant, and,

if impelled to do so, see first that the opinion volunteered by them is supported by some evidence, and if not, then refrain from doing injury to an innocent defendant. Had the first rule been followed by the Magistrate, evidence was in readiness to prove that the so-called test was absolutely without value. The non-production of this evidence arose from the act of the Court in ruling that there was no case to reply to.

Yours faithfully,

JOHN TIMPSON,

Agent for Johnson & Johnson.

104 Golden Lane, E.C., February 6.

#### The Rebate System in Canada.

Messrs. Evans, Sons & Co., Liverpool, referring to our Canadian Commissioner's comments (January 30) on the withdrawal of Messrs. Evans & Sons (Limited) from the rebate scheme, say it is a pretty true statement of the position, but they think it ought to be made clear that it was only a limited number of the manufacturers of patents who put their goods on the rebate system and who thus objected; and they state that some of these have already given in. They tell us further that it was at the instigation of the retail trade that Messrs. Evans & Sons (Limited) took the action in question, and it has met with the warm approval of nearly the whole of their customers. The working of the rebate system they found to be detrimental to wholesale houses who desired to act honestly by their signed agreement, and, moreover, injurious in that it assisted the business of the stores and others who were not legitimate chemists and druggists.

#### Another Weapon against the Companies.

SIR,—The letter from Messrs. J. Cross & Co. in your last issue boldly recommends "all chemists not to give references to or engage assistants who have been in the employ of limited companies."

Thus all the assistants of Allen & Hanburys, Boot's, Day's, Inman's, Lennon, Lewis & Burrows, Parke, Southall, Woolley, and other limited companies are to be subjected to the severest boycott.

These assistants are qualified chemists, British gentlemen, law-abiding citizens, have more successfully contributed to the objects of the Pharmacy Act than other chemists, and have violated no recognised code of etiquette in their craft. They have only studied their own and families' interests so far as to accept the best salaries offering, and are, therefore, singled out by this enlightened firm, and recommended for the most cruel and cowardly treatment.

No sensible chemist will listen to this advice, for it is quite certain that it will not be tolerated by the public, and that if brought under the notice of Parliament in connection with the proposed legislation, is not unlikely to prove the rope wherewith to strangle the new Bill in its infancy. The gentlemen on whom Messrs. Cross & Co. propose to operate will, with the advice and assistance of their employers, know how to deal with any such attempt on their liberty should it be made.

Faithfully yours,

Britannia Row, N., February 8.

J. LORIMER.

SIR,—Messrs. Cross & Co. seem quite unconsciously to give an unsolicited testimonial to the honesty or common sense of the trade by their recommendation in your issue of February 4. Let us hope that, like some other testimonials, it is not altogether deserved.

How is their advice to be taken? When an inquiry as to the character of an assistant is received from a limited company is the chemist to leave it unanswered or is he to reply that he is unable to give Mr. — a character? In the first course, as in the second, he is wilfully casting a slur on the character of an innocent man, but if he writes a straightforward letter saying that he never gives a reference to a man who is going over to the enemy, the limited company takes his opinion at its value, and no harm is done.

Yours faithfully,

Stafford, February 7.

HY. PEACOCK.

SIR,—Messrs. Cross & Co.'s idea of not employing store assistants is not a new one, the grocers have long ago adopted it in regard to co-operative employes. What chemists should do is to give as good salaries and hours as



the limited companies do. The latter would have far more difficulty in getting qualified men.

I know plenty of chemists like myself, who would prefer the "legitimate" trade, but who are compelled to go for the highest salary obtainable, through lack of the proverbial "silver spoon." The store experience is often the last variety a man has, previous to starting for himself. He learns, for one thing, the art and mystery of a salesman, which is not to be despised. *Verb. sap.*: let the dignified pharmacists do likewise.

Yours sincerely,

AN OLD "SQUARE" MAN. (181/45)

SIR,—The "New Weapon against the Stores" will prove of no solid advantage. Stores do not give "raw pharmaceutical products" a position of importance until they find out their capacity and business qualification.

It is best to allow of some latitude in these 'matters of assistants apparently straying from the path of rectitude. The stores' bait is of no real value to an assistant, and men are fast realising it.

Hampden House, N.W.,  
February 8.

Yours faithfully,

R. E. WRIGHT.

#### Natal Tea.

SIR,—In your issue of February 4 (page 213) I notice the interesting information regarding Natal tea, and your remarks upon its characters lead me to address a few lines to you thereon.

It is quite true that Natal teas, when compared with those from other countries with regard to colour, astringency, and flavour, yield a poor liquor, and that dealers do not favour them even for blending-purposes; but the reason for this is that the public have been so trained to expect a strong astringent liquor that now even a good old-fashioned China tea would, in their estimation, be rejected as very poor stuff.

During last year I had the opportunity of examining several representative samples of Natal tea, and I published the analyses of a few, which showed that the caffeine-value was equal to that of many Indian and Ceylon teas, but the tannin-content was much lower. It is to this last point I would direct your particular attention, for it is certainly a feature of importance in these days when tea-drinking is the cause of so much gastric disturbance.

I do not wish to assert that the caffeine-content is the basis on which to value teas, although it will be admitted that it is an important factor; but I think it well to combat the mistaken ideas which have led to the assumption that Natal teas are of little value because of the difference between the liquor they yield and that from the more astringent teas.

Yours faithfully,

C. EDWARD SAGE, F.C.S., Ph.C.

8 Fisher Street, Red Lion Square, W.C.  
February 6.

#### Poison-bottles Wanted.

SIR,—May I through your columns request manufacturers, agents, and others to favour the Edinburgh District Chemists' Trade Association by sending specimen bottles, pots, &c., which have been patented or devised for the purpose of keeping or selling poisons? A discussion is to take place at our next meeting, on February 21, on the best way to carry out the poison-regulations recently passed by the Society, and it has been thought that a small exhibition of poison-bottles, &c., would be both interesting and useful. Particulars as to sizes, &c., might accompany the specimens. Bottles, &c., will be duly returned, if desired, after the meeting.

I am, yours sincerely,

CLAUDE F. HENRY, Hon. Secretary.

1 Brandon Terrace, Edinburgh, February 7.

#### An "Empty" Tip.

SIR,—I have found the following plan work well with empties—that bugbear of most chemists.

When I have a hamper of drugs in, after emptying the contents of the bottles into the shop-bottles, I at once pack up all the empties in the same hamper and straw, filling up, if any spare room, with a few odd empties that are bound to accumulate. I then tie the hamper down, and write on a tally the contents of the hamper, attaching same. Then at

the end of the month all I have to do is to hand the hampers to the carriers, copying off contents of hampers for advice note.

This plan saves all the bother of looking up empties, keeps them sorted, saves breakage, and keeps the warehouse much clearer and cleaner. I have only tried it this year, but am delighted with the plan. I do not suppose it is original, but it certainly might be followed by many chemists to their advantage.

January 30.

I remain, yours truly,

H. B. SHARMAN.

#### Dispensing Notes.

##### Vaseline-lotion.

SIR,—How can I make a respectable application of the following, as prescribed?—

|                    |     |     |     |      |
|--------------------|-----|-----|-----|------|
| Ext. jaborandi fl. | ... | ... | ... | 5j.  |
| Tr. canthar.       | ... | ... | ... | 5j.  |
| Glycerini          | ... | ... | ... | 5ss. |
| Vaselini           | ... | ... | ... | 5ss. |

Ft. applicatio.

To be rubbed into the scalp at night.

Yours truly,

DISSATISFIED. (173/41)

[You cannot make a "respectable" lotion from the prescription as written, but by using vaseline oil and affixing a "shake" label you would probably realise the doctor's intentions.]

##### A Strophanthus-mixture.

SIR,—The following prescription has been entrusted to me to be dispensed, viz.:—

|                                |     |     |     |      |
|--------------------------------|-----|-----|-----|------|
| Tr. strophanth.                | ... | ... | ... | 5j.  |
| Liquor strychn. hydrochlor.... | ... | ... | ... | 5j.  |
| Aq. chloroform. ad             | ... | ... | ... | 3iv. |

M.S.A.

—and I have obtained a slightly cloudy solution. The patient has refused to take it, stating that the same prescription she has had dispensed by a London chemist was quite clear.

I shall feel, therefore, much obliged if you will state in your next issue whether the mixture should be quite clear or otherwise, as, notwithstanding my filtering the mixture, it was still cloudy. All my preparations are according to the P.B. 1898.

Yours faithfully,

Malta, February 3.

CONSTANTINO MIZZI.

[The cloudiness is due to a small amount of fat which the tincture of strophanthus contains, and which no doubt the London dispenser removed by filtration. It is possible that further opacity may take place in a few days, as the strophanthus material is hydrolysed with comparative rapidity in aqueous mixtures, the strophanthin being changed to strophanthidin.]

157/19. *Veritas*.—Conf. rosæ is not incompatible with hydrarg. c. cretā. Thin conserve or a soft extract is the usual excipient for grey-powder pills.

148/23. *Transvaal*.—Liq. Arsenicalis and Liq. Strychn Hydrochlor., prescribed together in mixture, must of course interact, the alkali of the arsenical solution precipitating the strychnine, and, as strychnine hydrate is soluble 1 in 5,500 of water, the amount of precipitated strychnine will depend upon the amounts of liquor and water used. If acid. nit. mur. dil. is prescribed in the same mixture, it is likely that it will neutralise the alkali, and so prevent precipitation of the alkaloid.

#### Legal Queries.

173/11. *Old Subscriber*.—If the mineral-water bottle bears the name of any maker, you may be subject to an action under the Merchandise Marks Act, or to an action for damages if you sell some other thing than that maker's article in it. There is no doubt about the offence if other



aërated waters are sold in such bottles; selling turpentine, benzene, or something else in such bottles is not so certainly illegal, and much would depend on whether the bottle still belonged to the manufacturer. But it is wiser to avoid the risk.

174/10. *Kino*.—If the medicine is advertised or labelled, or in any printed or written form recommended for the cure of a disease, it must be stamped when sold in England, Wales, or Scotland; but the packets sold in Ireland need not be stamped.

5/21. *Mona*.—No person in England or Scotland who is not registered as a chemist and druggist may call himself a homœopathic chemist. So far, "Drug-stores" is a title which has been used by unregistered persons with impunity.

267/34 *Subscriber*.—Unqualified assistants may sell sulphate of zinc, sugar of lead, and poppyheads. They may not legally sell anything containing chloroform.

168/72 *D. L. E.*—Anybody may use the title of oculist as well as that of optician.

171/61. *E. B. F.*—If your saline is of the character of Lamplough's or Eno's it is not subject to medicine-stamp duty; but if it contains other and more active medicinal agents, it is liable.

### Miscellaneous Inquiries.

*We reply to subscribers and their employes only upon subjects of interest to other readers generally. When more than one query is sent write each on a separate piece of paper. When a sample accompanies a query full particulars regarding the origin and use of the sample must be given, and it must be distinctly labelled. Queries are not replied to by post, and those sent anonymously are disregarded.*

164/47. *A. S.*—Syr. Glycerophosphat. Co.—The following is the formula given in "Pharmaceutical Formulas," page 502:—

|  |     |     |          |
|--|-----|-----|----------|
| Glycerophosphate of lime                                       | ... | ... | 3iss.    |
| Glycerophosphates of soda, potash, magnesia, and iron, of each | ... | ... | 3ss.     |
| Tincture of nux vomica   | ... | ... | 3ss.     |
| Pepsin   | ... | ... | gr. xlv. |
| Diatase  | ... | ... | gr. xv.  |
| Tincture of orange   | ... | ... | 3iij.    |
| Syrup of cherries to   | ... | ... | 3vj.     |

Mix, and filter.

In connection with the differences in this syrup, see the remarks made at a meeting of the Liverpool Chemists' Association, *C. & D.*, December 17, page 969.

250/1. *Croci*.—A little catechu or kino will probably yield to turpentine the colour you require.

160/68. *Chemist*.—Colours for Tattooing.—The following are non-poisonous, and we understand answer well, but professionals use other colouring-matters, which they do not divulge:—Yellow, yellow ochre; brown, umber or sienna; green, a mixture of indigo and yellow ochre.

168/23. *Tyro*.—Gum Syrup for Painful Dentition:—

|                    |     |     |         |
|--------------------|-----|-----|---------|
| Potass. bromid.    | ... | ... | gr. xx. |
| Syr. papav.        | ... | ... | 3ss.    |
| Spt. chlorof.      | ... | ... | mxl.    |
| Inf. anthemidis ad | ... | ... | 3iv.    |

M.

A little to be rubbed on the painful gum with the finger.

162/41. *Soms*.—The directions to bring a mixture of sulphuric acid and water "down to a density of 24°" refer to Twaddell's hydrometer. A density of 24° T. represents nearly 16 per cent. of sulphuric acid.

264/9. *Dairy*.—We thank you for your good wishes. There is a 1s. book on "Cheese and Butter Making," by Oliver and Barrow, published by Bemrose, which should snit your customer.

166/7. *Spes*.—Tincture of Cudbear (made by percolating 2 oz. of cudbear with a mixture of equal parts of alcohol and water to make 16 oz. of tincture) is a good colouring-agent for acid mixtures. It gives a bright red colour.

164/71. *Anti-stores*.—(1) The Birdseed is a mixture of hemp (5), canary (4), millet (1), and maw (1) seeds. The figures denote the proportions as far as we can make them out. (2) We would have sent you a coupon if you had let us know in time.

165/31. *Optimundo*.—Sol. Quininæ Salicyl.—When salicylate of quinine was first introduced the following formula for a solution was given in the *Lancet*:—

|                  |     |     |     |        |
|------------------|-----|-----|-----|--------|
| Ac. salicylat.   | ... | ... | ... | 3j.    |
| Quinin. disulph. | ... | ... | ... | gr. x. |
| Liq. amm. fort.  | ... | ... | ... | 3j.    |
| Syr. simpl.      | ... | ... | ... | 3j.    |
| Aq. ad...        | ... | ... | ... | 3xij.  |

Shake the acid and quinine together in 8 or 9 oz. of water; then add the ammonia, the syrup, and the remainder of the water. A few drops more of ammonia may be required to make a clear solution.

Quinine salicylate is soluble about 1 in 20 of 90-per-cent. alcohol, and advantage might be taken of this to prepare an elixir.

173/48 *C. J. H.*—You will find situations such as you want, as dispenser with medical men, advertised in the *Lancet* or *British Medical Journal*. Other situations which would probably pay you better are advertised in this journal. You ought not to take less than 1*l.* 10*s.* a week to live decently in London.

269/21. *W. W.*—Book on the Microscope.—J. Hogg's "The Microscope," 10*s.* 6*d.* (Routledge), is a good book. A new and improved edition has just been issued.

172/68 *Fowl*.—Bone-ash is a better ingredient in fowl-condiment than linseed-meal, on account of the utility of lime compounds to laying hens.

164/11. *Salol*.—You should write to Professor W. C. Roberts-Austen, assaver and chemist to the Royal Mint, Little Tower Hill, E.C., for particulars of the appointment of Chemists to the Mint. Applicants have to be very expert metallurgical chemists, and, we believe, are usually selected from men trained at the Royal College of Science.

167/57. *G. W.*—The increased fee for the Minor comes into operation after August, 1900. The fee for each re-examination will be three guineas, without limit as to time.

171/60. *Pelagos*.—Canadian prescription practice is similar to British.

173/28. *Phenacetin*.—(1) For particulars as to obtaining "F.I.C." please refer to Educational Number. (2) Both the formulas for ballroom-floor polish in "Pharmaceutical Formulas" are correct; but why, if you say equal parts of wax and boric acid answers better, should you trouble about the "Pharmaceutical Formulas" recipes?

168/19. *Aloes*—Red-water in Cows.—A number of theories have been propounded as to the true nature and pathology of this disease, but no treatment appears to be so successful as the old form described at page 142 of "Veterinary Counter-practice." An ounce or more of aloes combined with a saline aperient, such as  $\frac{3}{4}$  lb. of mag. sulph., may be prescribed at the outset, and a liniment of ol. tereb. 1 part to 4 or 5 of any seed oil rubbed into the loins. The aloetic treatment in "Veterinary Counter-practice" was condemned by advanced veterinarians until lately, when a great German professor has "discovered" it, and the veterinary journals translate it for our benefit.

168/65. *Caught Napping* (London, N.W. district) reports that a respectably dressed German, medium height, fair, light moustache, and wearing light dust-coat and round felt hat, came into his shop one evening last week, and asked for a sixpenny cake of soap. He tendered a sovereign,



but while the chemist was getting the change, he found a sixpence with which he paid for the soap. Then he said he would like change for a sovereign, which was again counted out for him, but instead of putting down the sovereign, he took another cake of soap, asked the price of it, and told the chemist to take the money out of the change. The chemist was busy at the time, and the German walked off with the sovereign, the change, and the soap, leaving the chemist to realise, a few minutes later, how he had been defrauded.

175/19. *Indigo*.—Testing Indigo-dyed Cloth.—See *C. & D.*, September 10, 1898, page 464.

168/4. *P. T.*—Tincture of Indian Bark—This is another name for Indian brandee. Your sample is made from a similar formula to the following:—

|                   |     |     |     |        |
|-------------------|-----|-----|-----|--------|
| Spt. ætheris nit. | ... | ... | ... | 5j.    |
| Spt. chlorof.     | ... | ... | ... | 3ss.   |
| Tr. cardam.       | ... | ... | ... | 3ss.   |
| Syr. simpl.       | ... | ... | ... | 3iiss. |
| Aq. ad            | ... | ... | ... | 3x.    |

The sale of this article requires a sweets-licence.

176/33. *F. W. S.*—You are certainly entitled to ask for information through this column, but we cannot ensure replies as promptly as you imagine. Many of the questions put to us are not answerable offhand: the information requires searching for.

176/49. *St. Peter*.—Glycerinum amyli separates after a time, but as a chapped-hand application it should be made with an increased amount of starch. This adds to its keeping-qualities, and the extra stiffness is no disadvantage. In making, however, it requires more care in manipulation than the B.P. article.

171/41. *H. T.*—(1) Specialists in Kidney-diseases.—Sir Dyce Duckworth, M.D., Mr. Chris. Heath, and Mr. E. H. Fenwick. Refer to the *DIARY* for their addresses. (2) Somerset House does not undertake private analyses.

174/21. *H. & Co.*—We could not, within the limits of this column, give you sufficient information on the Manufacture of Vinegar to be of practical use. You had better consult such books as Brann's "Manufacture of Vinegar," 25s. (Low), or Wetherell's "Manufacture of Vinegar," 7s. 6d. (Trübner).

169/74. *Mizpah*.—(1) The acidity of methylated spirit is best neutralised by shaking with a little lime and decanting. (2) Turpentine is the best diluent for beeswax in making brown-boot polish where it is desired to avoid the darkening of the leather which fixed oils used in such a case occasion.

174/8. *Optic*.—Information regarding the Spectacle-makers' examination can be obtained from Colonel T. Davies Sewell, The Guildhall, E.C. Mr. J. H. Sutcliffe, Clifton Chambers, Blackpool, will supply particulars of the examinations of the British Optical Association. By referring to the index of the last volume of the *C. & D.*, you will be able to turn up many references to this subject.

160/58. *A. B.*—Book on Artificial Manures.—Voorhees' "Fertilisers," 4s. 6d. (Macmillan).

### Information Wanted.

The Editor will be obliged for replies to the following from any who can furnish the information.

175/55. What is Illingworth's solution?

168/10. Makers of Laine's gelatin finings.

180/73. Makers of "Cremiline."

180/74. What is atroin?

180/49. Name and address of makers of "Eukarthon," a window-cleaning preparation.

## Trade Report.

The prices quoted below are the bottom prices obtained for bulk quantities by importers and manufacturers, who do not supply retailers. They are in many cases exclusive of various charges.

42 Cannon Street, London, E.C.: February 9.

**M**INING LANE business has quieted down this week, but it is not quite dull, as there has been a fair inquiry for some leading staples. The speculation in quinine continues at last week's rates, and a confident opinion is expressed that another advance by makers beyond the 1*d.* and 1½*d.* of Saturday last will follow the next Amsterdam bark-sales. Both crude and refined camphor are advancing daily, and although the English and German refiners have raised their prices 1*d.*, a further advance is anticipated. Ipecacuanha is quiet. The following is a summary of the more important changes:—

| Higher              | Firmer          | Lower            |
|---------------------|-----------------|------------------|
| Aniseed             | Cream of tartar | Ammonia sulphate |
| Camphor             | Gentian         | Cocoa-butter     |
| Ferri et quin. cit. | Green copperas  |                  |
| Menthol             | Oil, peppermint |                  |
| Oil, linseed        |                 |                  |
| Quinine             |                 |                  |
| Tin crystals        |                 |                  |
| Vermilion           |                 |                  |

Among the arrivals this week are 31 cases asafetida, 129 cinchona, 6 cases crude cocaine, 680 olibanum, 26 Cartagena ipecacuanha, 16 manna, 280 barrels cod-liver oil, 10,000 flasks quicksilver, 21 bales sarsaparilla, and 10 cases toncabeans.

### Brisk Business.

This year's arrivals show as well as anything that 1899 promises to be a splendid year. Up to Wednesday the goods delivered from the London warehouses included 155 packages of ipecacuanha, 140 of sarsaparilla, 227 of rhubarb, 173 of Sumatra benzoin, 70 of Palembang, and 120 of Siam. Dragons'-blood is scarce, but 33 boxes have come this year to relieve the scarcity, and if the Filipinos had more sense we would have more gum. Of aloes 90 packages have come from the West Indies and 40 from Socotra; 49 packages of gum guaiacum have been stocked, 30 of gum guaiacum, 32 of myrrh, and 20 of Indian hemp. Altogether in six weeks over 1,200 original packages of important drugs have arrived here since New Year's Day, showing how active trade is and that there is life in the London market still.

### Board of Trade Returns.

British trade opened well in the first month of the year, there being an increase both in imports and exports. The figures for January, 1898 and 1899, are:—

|   | 1898                 | 1899                             |
|---|----------------------|----------------------------------|
| Imports ... ..                              | 39,929,291 <i>l.</i> | 41,216,606 <i>l.</i>             |
|   |                      | Increase ... 1,287,315 <i>l.</i> |
| Exports of British produce ... ..           | 19,231,404 <i>l.</i> | 20,347,234 <i>l.</i>             |
|   |                      | Increase ... 1,115,830 <i>l.</i> |
| Exports of foreign and colonial merchandise | 4,682,661 <i>l.</i>  | 5,120,260 <i>l.</i>              |
|   |                      | Increase ... 437,599 <i>l.</i>   |

New ships are included in the exports for the first time. The increase in exports is largely accounted for by this item, which reaches 545,190*l.*, and if the returns were made up as in January, 1898, the increase would be only 570,640*l.* During the month there was a decrease in the importation of chemicals by 34,443*l.*, and in oils by 39,708*l.*; exports of chemicals also decreased by 43,844*l.*, the figures being 679,174*l.* against 723,018*l.* for January of last year. The



following chemicals, oils, &c., were imported in increased quantities:—Alkali, 2,103 $\frac{1}{2}$ ; chemical-manufactures, 38,852 $\frac{1}{2}$ ; coal-tar dyes, 3,128 $\frac{1}{2}$ ; coconut oil, 19,672 $\frac{1}{2}$ ; palm oil, 23,459 $\frac{1}{2}$ ; gum arabic, 436 $\frac{1}{2}$ ; unenumerated drugs, 8,506 $\frac{1}{2}$ . Decreases occurred in quicksilver by 37,226 $\frac{1}{2}$ , borax 6,789 $\frac{1}{2}$ , cochineal 895 $\frac{1}{2}$ , indigo 17,370 $\frac{1}{2}$ , olive oil 22,578 $\frac{1}{2}$ . Among the exports we find a welcome increase in medicines of 6,869 $\frac{1}{2}$ , the figures for the month being 95,231 $\frac{1}{2}$ , against 88,362 $\frac{1}{2}$  for January, 1898; soaps also show an increase in value of 7,588 $\frac{1}{2}$ . On the other hand, our trade in alkali is still falling away, a shrinkage of 9,498 $\frac{1}{2}$  being noticeable. Other decreases were bleaching-materials 75 $\frac{1}{2}$ , and sulphate of copper 28,451 $\frac{1}{2}$ .

### General Produce Brokers' Association of London.

At the meeting of the committee held on Monday last Mr. Chas. Barber (Messrs. C. Barber & Co.) was elected President and Mr. W. W. Green (Messrs. Brookes & Green) Vice-President for the ensuing year.

### Tea Market.

INDIAN TEAS are in a very strong statistical position at the present time, and while figures are traditionally deceptive there can be no doubt that a good many boomlets in past years have sprung from a more slender foundation than the present position. On January 1, the stock of Indian tea was 350,000 lbs. below that of January 1, 1898, in spite of increased imports during the past six months. By February 1 last the deficit above-named had increased to nearly 4,000,000 lbs., as compared with the stock on February 1, 1898, and when it is realised that the deliveries so far this season are some 11,000,000 lbs. ahead of the corresponding period a year previously, it will be seen that there is ample ground for the moderate advance already established on the low range of December prices, and that unless there is an improbable and very big falling-off in deliveries in the near future, there will be a considerable shortage before stocks can be replenished by new teas.

CEYLONS are firm for lower grades, but better teas are coming in more plentifully, and show better value.

THE CHINA MARKET is for the first time for many years absolutely bare, even of commonest leaf-tea under 5 $\frac{1}{2}$ .

### Heavy Chemicals.

[These prices are for market-centres other than London.]

The prevailing tone in the heavy-chemical market continues to be one of considerable firmness, with a fair general business passing, and values on the whole well maintained.

ALKALI PRODUCE.—Saltcake tends a shade lower. Caustic soda and bleaching-powder firm. The Board of Trade returns for January show a decided increase in exports of the latter product over both January 1898 and 1897. Alkali exports show a decrease of 14.5 per cent. against 1898, and 12.2 per cent. against 1897.

TIN CRYSTALS are higher, and stand at 6 $\frac{3}{4}$  $\frac{1}{2}$  to 6 $\frac{1}{2}$  $\frac{1}{2}$ , and are very firm thereat.

GREEN COPPERAS has taken a firmer tone owing to heavier demand, and price has upward tendency. Present figures for best Lancashire makes are 41s. to 43s., f.o.b. Liverpool.

SULPHATE OF AMMONIA is dull. Beckton, 10 $\frac{1}{2}$  3s. 9 $\frac{1}{2}$ d.; February-June delivery, 10 $\frac{1}{2}$  2s. 6 $\frac{1}{2}$ d.; Beckton terms, 10 $\frac{1}{2}$  2s. 6 $\frac{1}{2}$ d.; Leith and Hull about 10 $\frac{1}{2}$  3s. 9 $\frac{1}{2}$ d.; and London, 10 $\frac{1}{2}$  5s.

SOUTH DURHAM SALT.—Steady, and moving well at 9s. 6 $\frac{1}{2}$ d. per ton, f.o.b. Tees.

MAGNESIUM SALTS.—Sulphate (Epsom salts), 2 $\frac{1}{2}$  15s. to 3 $\frac{1}{2}$ l.; carbonate, 37s. 6 $\frac{1}{2}$ d. to 40s. per cwt.; calcined magnesia, 1s. to 1s. 4 $\frac{1}{2}$ d. per lb.; chloride of magnesium, 2 $\frac{1}{2}$  10s.

BARIUM PRODUCTS.—Moving well at unchanged rates. Chloride, best refined crystals, 6 $\frac{1}{2}$  17s. 6 $\frac{1}{2}$ d. f.o.b., and 6 $\frac{1}{2}$  15s. free on rails. Precipitated sulphate (blanc fixe), 6 $\frac{1}{2}$  10s. to 6 $\frac{1}{2}$  12s. 6 $\frac{1}{2}$ d. Mineral sulphate, 42s 6 $\frac{1}{2}$ d. to 72s 6 $\frac{1}{2}$ d. per ton, according to quality and percentage. There is little mineral carbonate of barytes offering, and prices are nominal. Hydrate of baryta, pure crystals, 12 $\frac{1}{2}$  to 13 $\frac{1}{2}$  10s.

COLOURS.—Lampblack, according to quality, 5s to 7s 6 $\frac{1}{2}$ d. per cwt. Pure ivory-black, 12s. per cwt. Mineral black, ordinary quality, 3s. 6 $\frac{1}{2}$ d. per cwt., and best qualities, 4s. to 4s. 6 $\frac{1}{2}$ d. per cwt. Umber, Turkish, 40s. per cwt.; Devonshire, 47s. 6 $\frac{1}{2}$ d. to 52s. 6 $\frac{1}{2}$ d. Ochre, French J.C., 60s. to 62s. 6 $\frac{1}{2}$ d. per ton; and French J.F., 6 $\frac{1}{2}$  5s. per ton. Ultramarine, pure, 40s. to 45s. per cwt. Oxide of iron, common, 6 $\frac{1}{2}$  17s. 6 $\frac{1}{2}$ d.; medinn, 10 $\frac{1}{2}$  7s. 6 $\frac{1}{2}$ d.; and finest, 20 $\frac{1}{2}$ l.

SULPHOCYANIDES are moving somewhat better, but prices keep very low; ammonium, 95 per cent., 5 $\frac{1}{2}$ d. to 5 $\frac{3}{4}$ d.; barium, 95 per cent., 4 $\frac{1}{2}$ d.; and potassium, 6 $\frac{1}{2}$ d.

### Liverpool Drug-market.

Liverpool, February 8.

CASTOR OIL.—In consequence of the slow demand prices have eased off somewhat, and good seconds Calcutta, just arrived by

the *Logician*, is offering on the quay at 3 $\frac{1}{2}$ d. per lb. First-pressure French is offering at 2 $\frac{1}{4}$  $\frac{1}{2}$ d. to 3 $\frac{1}{2}$ d., but easier rates are now being asked forward.

GUM ACACIA.—The business passing is of a very limited character, 5 serons medium Soudan sorts selling at 65s., and another small parcel at 62s. 6 $\frac{1}{2}$ d.; while of Brazilian arabic 5 tons were sold at 18s.

QUILLATA-BARK, in consequence of arrivals, is easier, and there are sellers at 16 $\frac{1}{2}$ d. per ton, and even this figure might be shaded.

HONEY.—Notwithstanding the slowness of demand holders are very firm in their views, and sales of Pile X. Chilian are reported at 28s. to 30s.; and Californian is held at prices varying from 37s. 6 $\frac{1}{2}$ d. to 46s., the latter price being for the pale liquid.

SCAMMONY-ROOT.—A parcel of 21 bales has been cleared off at 22s., a bid of 21s. 6 $\frac{1}{2}$ d. per cwt. having been refused.

GINGER, AFRICAN, has experienced a spurt during the week, and parcels have been withdrawn from the market. Holders are asking 25s., but it is questionable whether they would sell much at this price.

SULPHATE OF COPPER.—Very firm indeed, at 23 $\frac{1}{2}$  10s. to 23 $\frac{1}{2}$  15s., with every prospect of yet higher prices.

ARSENIC.—Powdered white firm at 16 $\frac{1}{2}$  5s. to 16 $\frac{1}{2}$  10s. net.

TONCA-BEANS.—Six packages foxy Pard offered at auction were withdrawn at 7 $\frac{1}{2}$ d., a bid of 6 $\frac{1}{2}$ d. being refused.

KOLA-NUTS.—At auction 1 $\frac{1}{2}$ d. was bid for 44 bags, but they were held for 2 $\frac{1}{2}$ d. per lb.

BEESWAX.—6 $\frac{1}{2}$  2s. 6 $\frac{1}{2}$ d. was bid for a small lot of Benguela, but it was held at 6 $\frac{1}{2}$  12s. 6 $\frac{1}{2}$ d. per cwt. A parcel of Peruvian fair to good yellow fetched at auction 7 $\frac{1}{2}$  12s. 6 $\frac{1}{2}$ d., 7 $\frac{1}{2}$  7s. 6 $\frac{1}{2}$ d., and 7 $\frac{1}{2}$  per cwt.

### German Drug-market

Hamburg, February 7.

Business in general is quiet here and only a few articles show any activity.

STAR-ANISE is firmer, at 200m. per 100 kilos.

CAMPHOR (REFINED) is quiet; prices asked here for spot delivery are 340m. to 335m. per 100 kilos., while Hamburg offers at a lower figure are reported from the interior.

COCAINE firm, at 380m. per kilo.

CASCARA SAGRADA is scarce and very firm; the price for small lots only is 55m. per 100 kilos.

COCA-LEAVES are also firm and dearer, at 250m. per 100 kilos.

MENTHOL is steady, at 16 $\frac{1}{2}$ m. per kilo.

LYCOPodium is still advancing, to-day's quotation being 245m. per 100 kilos.

QUININE shows a firm position at 33m. per kilo.

WAX (JAPAN) is firmer, at 59m. per 100 kilos.; Carnauba (grey), 75m.; yellow, 125m. per 100 kilos.

OILS: Castor and cod-liver are unchanged.

PEPPERMINT OIL is quiet, HGH at 4.95m. per lb., and Japanese at 7 $\frac{1}{2}$ m. per kilo.

### American Market.

New York, January 31.

Business continues good, and the drug-market maintains its steady tone. Prices generally are tending upward, and speculative movements are occasionally noted.

ACID, CITRIC, has further advanced to 37c.

BUCHU-LEAVES are tending upwards, in consequence of the active demand. Quotations are strong, at 13c. to 16c.

BELLADONNA-LEAVES have advanced, owing to scarcity, and 11c. to 11 $\frac{1}{2}$ c. is asked.

ACONITE-ROOT is scarce, especially the better grades, and 11c. to 12c. is asked for good quality root.

CAMPHOR is steadily advancing; for domestic refined 41c. is asked, and offerings are very limited.

CASCARA SAGRADA is in good demand for export, but holders are not anxious to sell. Spot-stock is light, and 7c. has been paid for two-year-old bark. The general range is from 6 $\frac{1}{2}$ c. to 7 $\frac{1}{2}$ c.

COCA-LEAVES are scarce, and Truxillo have advanced to 18c. to 20c., according to grade. Huanoco are firmly held at 24c.

GUMS.—Asafetida is scarce and firm, at 15c. to 17c., according to quality. Chicle is firmer, at 27c. to 30c., and large sales have been made for the first time in several months. Arabic in good demand, and values are firmer, in sympathy with the London market.

IPCACUANHA.—The market has been excited during the week, and prices have jumped upward. Considerable lots have changed hands, at prices ranging from \$2.75 to \$3.10; and spot quotations are firm, at \$3.25 to \$3.50.

LYCOPodium has excited some interest, in consequence of cable reports. An active demand has sprung up, and values are firm, at 27c. to 29c., according to grade.

OILS, ESSENTIAL.—Anise is weaker, and \$1.50 will buy in quantity. Citronella is easier, and in abundant supply; 24 $\frac{1}{2}$ c. is quoted for drms, and 25 $\frac{1}{2}$ c. for cans, but less will buy. Sassafras is firm, at 34c. for natural and 32c. for artificial.



QUININE is generally firmer, and an advance is looked for. Holders offer very sparingly. Manufacturers still quote 21c. for foreign and 21c. to 24c. for domestic.

#### Cablegrams.

BERGEN, February 9, 10 45 A.M.:—In spite of the bad weather the prospects of the fishing are good, and the catch of cod up to date is 958,000, against 176,000 at the same time last year. The yield of oil amounts to 702 barrels, against 328 barrels last year. The market is firm and unaltered, at 60s. per barrel f.o.b. for medicinal non-congealing oil.

\* \* \* \*

HAMBURG, February 9, 12 4 P.M.:—Refined camphor is firmer in second hands at 345m. per 100 kilos. Lycopodium has advanced to 250m. per 100 kilos., and Japan wax is quoted 59m.

\* \* \* \*

NEW YORK, February 9, 3 36 P.M.:—Business is going strong here. Opium is dull at \$3.15 per lb. Quinine excited, and 24c. paid for domestic sulphate. Refined camphor advancing: 43c. per lb. is the closing figure. Hydrastis-root scarce, at 48c., but ergot is easier, German being 29c. per lb., and Spanish 35c. Cocaine has advanced 25c. per oz.

#### London Markets.

ACID, CITRIC.—Very firm at 1s. 4d. per lb. from the makers, and at 1s. 3½d. in second hands. The price of juice varies between 17½ 2s. 6d. and 17½ 15s. per pipe, f.o.b., Messina. All indications point to a further rise in the acid.

ACID, TARTARIC, remains firm at last week's quotations. The shipments of tartar materials from Naples show a decided increase in the season from October 1, 1897, to September 1898, as compared with the preceding season, the figures being:—

|         | Half-refined<br>Tartar | Vinaccia<br>Argols | Crude<br>Argols | Wine-<br>lees |
|---------|------------------------|--------------------|-----------------|---------------|
|         | Tons                   | Tons               | Tons            | Tons          |
| 1896-97 | 1,069                  | 2,642              | 2,827           | 2,804         |
| 1897-98 | 1,144                  | 3,937½             | 1,979½          | 3,432         |

The value of the above materials was estimated at 368,640l. in 1897-98, compared with 366,500l. in 1896-97. Half-refined tartar was chiefly exported to Great Britain and Germany, Vinaccia argols to Great Britain and United States, crude argols to the United States, and wine-lees to Great Britain.

ACONITE.—Good sound foreign root is scarce, and holders are asking a higher price—viz., 46s. per cwt. on the spot. There is plenty of low-grade stuff to be had at much lower prices.

ALOES.—Socotrine has been selling slowly at 75s. per cwt.

ANISEED.—Dearer at 36s. per cwt., c.i.f., for good Alicante.

ARROWROOT.—Good St. Vincent brought 4¾d. to 5d., per lb. at auction on Wednesday; ordinary was held for 4d. per lb.

ASA FETIDA.—Fire quality still remains in small supply and some fair stuff has changed hands at 50s. per cwt.

BALSAM COPAIBA.—Fine filtered Maranham is quoted at 1s. 7½d. to 1s. 8d. per lb. on the spot.

BELLADONNA.—Good whole German root with sharp fracture has been in demand lately, and parcels of this description are obtainable at 40s. per cwt., London terms. English root has also been in good inquiry.

CAMPHOR.—In view of the continued stringency of the crude market English refiners on Monday advanced their prices for refined by 1d. per lb., making bells and flowers 1s. 7d. per lb. in ton lots and 1s. 7½d. in ½-ton lots. On the following day German refiners advanced their price for bells to 1s. 6¾d. per lb. in ton lots. According to our advices from Germany this week, the upward movement has not yet

spent itself, for although large quantities have changed hands in Hamburg at the higher rates, it is asserted that the second-hand holders have not obtained sufficient to cover the usual spring demand, and as soon as this influence is felt prices will again advance. Meanwhile the crude market is also advancing rapidly, and on Friday of last week some 800 piculs of Chinese changed hands at 118s. to 120s. per cwt., c.i.f. (an advance of 2s. on Thursday's prices); and a small business was also done in Japanese at 127s. 6d., c.i.f. On Monday the market opened with importers quoting Chinese at 125s., and Japanese 135s.; but in second-hands there were offers of 122s. 6d. and 127s. 6d., c.i.f., respectively. There were, however, buyers of Chinese at 120s.; and on Tuesday about 400 piculs sold for February-April delivery at this figure, and 300 piculs Japanese at 127s. per cwt., c.i.f. On Wednesday a sale of 500 piculs Japanese transpired at 126s. 9d. to 127s. for April delivery, and Chinese at 121s. 3d., c.i.f. London. To-day 200 piculs Japan sold at 127s. 6d. c.i.f.

Hong-Kong advices, dated January 7, report that the sales for the previous fortnight amounted to about 300 cases for the Straits Settlements and India at well-maintained prices. Stock on the above date was 4,000 cases. The shipments from Hong-Kong and Canton for the twelve months (January to December) were:—

|           |        |        |        |        |
|-----------|--------|--------|--------|--------|
|           | 1898   | 1897   | 1896   | 1895   |
| U.K. ...  | 410    | 134    | 959    | 6,546  |
| Continent | 18,278 | 26,421 | 26,475 | 21,705 |

CANTHARIDES.—The stock in Hong-Kong on January 7 was 5 piculs, and the quotation then was \$55 per picul (106s. per cwt.).

CARDAMOMS have been selling in a small way since the auctions, but the absence of fine qualities renders business difficult. Exports from Ceylon from January 1 to 17 were 3,285 lbs., all of which went to India.

CASCARA SAGRADA.—Unchanged at the nominal quotation of 40s. for three to four year old bark.

CEVADILLA-SEED.—Good quality was limited in sale last week at 7d., a bid of 5½d. per lb. being rejected.

COCOA BUTTER.—Lower. In auction on Tuesday 75 tons Cadbury's brand sold at 1s. 2¾d., afterwards declining to 1s. 2½d. per lb. At the Amsterdam auctions on the same day 4,000 kilos. offered by D. M. & C. Watering sold at 77½c. to 78c. per half-kilo.

COCAINE.—The agents for Schering's brand have advanced their quotation to 12s. 3d. per oz. Meanwhile other makers quote 11s. 9d., though we do not hear that this figure has been paid. As a matter of fact B. & S. is 11s. for contract quantities to consumers. In second hands business is reported at 10s. 6d. in 100 oz. lots. Five cases of crude have arrived from Callao, and one case from Salaverry, but they are reported to be "in transit" for Hamburg. Inquiries for crude on this market have elicited that there is none to be had.

COPPER SULPHATE.—Still a rising market, in sympathy with the advance in the metal, good brands being quoted on the spot at 23½ per ton, while Anchor is 24½ and Macclesfield 24½ per ton.

CORIANDER-SEED.—Sales of good Morocco seed are reported at 7s. 3d. to 7s. 6d. per cwt.

CREAM OF TARTAR.—Firm at 81s. per cwt. for 98-per-cent., and 77s. for 95-per-cent.; ordinary firsts, powder, 75s. 6d., and crystals, 73s. per cwt.

FERRI ET QUININÆ CIT.—Advanced ½d. per oz., 6d. now being quoted for 25-oz tins and 7d. for 1-oz. vials, with the usual reductions for larger quantities.

GALLS.—Unchanged, and little business doing, although holders of all kinds remain firm. Small sales of blue Smyrna galls are reported at 57s. 6d.; green and white not offered. Holders of Persian remain firm for spot parcels, and for forward delivery even higher prices are asked.

GENTIAN.—After the business in auction last week a better tone was exhibited, and further sales are reported at 16s. 6d. per cwt. for small lots of French root, which figure would be shaded 6d. for ton lots. The crop is practically harvested now, and in view of the late arrivals there is little more to come along.

GINGER.—Private advices from Japan report that the ginger-crop is a failure, and holders there only offer in limited quantities at 22s. 6d. per cwt. c.i.f.



**GLYCERIN.**—Firm, but without change. German advices also report an unchanged market, although producers of crude are paying higher prices for tallow. A good business has lately been done for the United States.

**GUM ARABIC.**—The market for Soudan sorts remains firm, with a small business in good soft at 80s. per cwt. In Trieste gum pale siftings have sold at 75s., and in the higher grades of Trieste picked small sales have been made at unchanged rates. Persian insoluble gum is still in fair inquiry, but business has been mostly confined to fine pale at 25s. per cwt.

**GUM TRAGACANTH.**—The good demand for the medium and lower grades still continues, and some 250 cases have lately changed hands at about previous rates. The value of fine firsts is nominally 14*l.*; seconds and thirds (which are in limited request) from 11*l.* to 13*l.* 10s. Inferior quality of Sussorah hog gum has sold at 35s. per cwt.; and a parcel of Smyrna seconds has been placed at 9*l.* 15s. per cwt.

**GUMS, VARNISH.**—At the auctions to-day considerable animation was prevalent, buyers bidding freely, especially for copal and kauri. There was a full supply of both these gums, 2,798 packages of kauri being offered, 1,154 of which were disposed of; and of 1,808 packages of copal 1,315 were sold. Animi was also in good demand, 62 of the 80 packages offered being sold; but olibanum was not disposed of publicly, although the sale of 76 packages privately was announced. The following are some of the prices:—

**ANIMI.**—Good amber Zanzibar realised 13*l.* 15s. per cwt.; small to bold amber pieces, 10*l.* to 10*l.* 17s. 6*d.*; fair sorts, 8*l.* to 10*l.* 17s. 6*d.*; smaller pieces, 5*l.* 10s. to 6*l.*; ordinary dull pale, 52s.; siftings, from 36s. to 38s.; pickings, 12s. One tin of specimens sold at 22s.

**COPAL.**—Fine selected bold pale amber, 67s. 6*d.*; ditto reddish, 52s.; good pale nuts, 56s.; fair amber scraped, 45s. to 47s.; good pale scraped, 42s. 6*d.* to 43s. 6*d.*; good pale nubbles, 35s.; darker, 25s. 6*d.* to 30s. 6*d.*; good bright chips, from 19s. to 20s. 6*d.*; smaller ditto, from 12s. to 15s.; good Manila chips, 18s. 6*d.*; siftings, 21s.; dust, 15s. 6*d.*

**DAMAR.**—Of 146 cases offered, only 29 sold. Fair Singapore sorts realised 35s.; blocky dust, 10s. to 10s. 6*d.* Batavian did not sell.

**GRASS-TREE GUM.**—Three bags of Accroides, from Sydney, sold at 8s. per cwt.

**KAURI.**—Fine dial, 15*l.* 2s. 6*d.*; pale, selected, well scraped, 12*l.* 17s. 6*d.*; bold amber, selected, 7*l.* 15s.; medium ditto, from 5*l.* 5s. to 7*l.* 10s.; three-quarter scraped, from 5*l.* 2s. 6*d.* to 7*l.*; good chopped, 6*l.* 17s. 6*d.* to 7*l.* 12s. 6*d.*; brown nubbles, 85s. to 88s.; black ditto, 74s.; half-scraped was not in demand, and was bought in at 80s.; medium to bold coated, from 95s. to 97s. 6*d.*; pale chips, 85s. to 89s.; pickings, 43s. to 48s.; brown chips, 39s.; pale dust, 41s. to 42s. 6*d.*; good brown ditto, 23s. to 24s.; chippy dust, 22s. 6*d.*; black dust, 15s. 6*d.*; fine bush was sold at prices ranging from 5*l.* 5s. to 7*l.* 12s. 6*d.* according to quality; dark medium bush, 73s. 6*d.* to 90s.; chips, 45s.; and black, 36s. 6*d.* East Coast chips sold at from 67s. to 70s., and dust at 34s. to 35s. Four specimens were sold at 4*l.* 15s.

**OLIBANUM.**—Fair pale drop was bought in at 40s.; good garblings sold at 30s., and some darker stuff at 16s.; 17s. was offered for siftings, but was not accepted, the lot being bought in at 19s.

**INSECT-FLOWERS.**—A Trieste correspondent writes, on January 31, that the market is quiet and steady. Open flowers appear to be neglected, while several parcels of half-closed flowers have been placed lately. Closed qualities are very scarce and in good hands. The stock in Trieste at the end of January, 1899, was 213,900 kilos., as compared with 247,100 kilos. at the end of December, 1898; the receipts in January were 22,400 kilos., and the deliveries 25,600 kilos. The following are the current quotations, f.o.b. Trieste:—Open flowers, 56s. to 57s. 6*d.*; half-open, 61s. to 74s.; closed, 89s. to 93s.; and wild flowers, 102s. to 110s. per cwt.

**IPECACUANHA.**—Since the auctions both Rio and Cartagena have been quiet, although firm. It is possible to buy fair sound Rio root at 13s. per lb. from first hands, and Cartagena and fair Cartagena at 7s. 6*d.* to 7s. 9*d.* per lb.

**MENTHOL.**—Quiet, though firm, both here and in Japan. Quotations come higher from there at 8s. 1½*d.* per lb., c.i.f., although in one quarter 8s. would be accepted; on the spot 7s. 6*d.* to 7s. 7½*d.* is wanted.

**OIL CASTOR.**—Firm and unchanged. Belgian first-pressing 27s. 6*d.* to 28s. spot, and second-pressing 25s. 6*d.* per

cwt. London pressed is 26s. 9*d.* per cwt. in barrels, and Hull manufactured 26s. to 27s. in barrels, and 3*d.* to 3½*d.* per lb. in cases ex wharf London.

**OIL, CITRONELLA.**—Very quiet at the easier tendency noted last week. The shipments from Ceylon from January 1 to 17, 1899, amounted to 3,851 lbs., of which 3,752 lbs. went to the United States.

**OIL, COD-LIVER.**—In new oil transactions continue at 65s. to 70s. per barrel, c.i.f. The purchases are generally small—viz., 5 to 20 barrel lots.

**BERGEN, February 4.**—The fishing has made good progress in spite of the stormy weather, the monthly statement for January showing that 600,000 fish (equivalent to 840 barrels of oil) have been caught, as compared with 100,000 fish (110 barrels) at the corresponding period of 1898. The markets show a firmer tendency, although the price for new medicinal oil is unchanged at 60s. per barrel, f.o.b. Bergen; 1898 oil is also unchanged. The exports from Bergen up to date have been 643 barrels, against 562 barrels at the same date of last year.

**OIL, OLIVE.**—The crop for this season, taking Italy as a whole, is far short of the average, the diminution of the supplies being less marked in Gallipoli and Taranto; quality from these districts is stated to be fairly satisfactory, and several purchases have been made for export to Russia. The following figures relate to the shipments of olive oil from Neapolitan ports to the United Kingdom:—

|          | 1898. | 1897. | 1896. | 1895. | 1894. |
|----------|-------|-------|-------|-------|-------|
| Tuns ... | 578   | 2178  | 2270  | 2105  | 3438  |

These figures show a considerable falling off for 1898, but that was expected, as stocks of Italian oil were much reduced, and, indeed, Italy bought for home consumption large quantities early last year in Spain. The crop on the Mediterranean side of Spain has also been somewhat of a failure this season, and oils in the Seville district are in demand to supply the shortage. As regards the Levant, new oils are coming slowly to the Smyrna market, and holders are not anxious to sell. From Messina it is reported that no further damage has been done, but the new oils clear only slowly, and demand for all kinds is only poor.

**OILS, FIXED.**—Linseed is firmer, and in more inquiry at 17s. 3*d.* to 17s. 4½*d.* for spot pipes; barrels, 17s. 9*d.* per cwt. Cotton steady at 15s. 3*d.* to 15s. 9*d.* for ordinary refined in casks. Rape unchanged at 21s. on the spot for crude and 22s. 6*d.* for refined; Ravison, 17s. 9*d.* Fine Lagos palm oil, 23s. 6*d.* to 24s. Ceylon cocoa-nut in pipes, 25s. 6*d.*, and Cochin 29s. 6*d.* per cwt. on the spot. Petroleum quiet, at 6½*d.* to 6¾*d.* for American spot; water-white, 7¾*d.* to 7½*d.*; and Russian, 5¾*d.* per gallon.

**OIL, PEPPERMINT.**—Firm; business has been done this week in HGH at 5s. 6*d.* per lb. on the spot, and in some quarters 5s. 7½*d.* is asked. Japanese oil is quiet and unchanged.

**OPIUM.**—The market for Persian is firm, and a good business has been done, mostly in manufacturing descriptions, at 10s to 11s per lb. according to quality. Considerable sales of druggists' have also taken place, at 8s. 6*d.* to 8s. 9*d.* for seconds. A few cases of soft-shipping have also been disposed of at slightly easier rates.

**SMYRNA, January 27.**—The lower prices recently ruling have brought in regular and fairly important orders, transactions for the week being 123 cases old and new current talequale and Karahissar, at the equivalent of 8s. 4*d.* to 8s. 5*d.* per lb., c.i.f. European ports, of which 26 cases were for Constantinople and the remainder for export. The arrivals were 1,322 cases, against 3,276 at the same date of last year. The warm weather now prevailing promises well for the crops, of which good reports are to hand from all parts of Anatolia. The stock of opium in Smyrna on January 31 was estimated to be 1,788 cases (exclusive of what is held on speculation), and in Constantinople 456 cases.

**CONSTANTINOPLE, February 4.**—Market is quiet, but firm, and sellers are still reserved. The sales for the week amount to 11 cases, at 8s. 1*d.* per lb., f.o.b., for druggists', which figure represents the nominal value of the article to-day. Stocks of all grades are low.

**ORRIS,** after a period of comparative inactivity, has been in more inquiry this week, and although the amount of business done has not been large an improvement has set in. Picked Florentine root has been sold at 34s. to 34s. 6*d.* per cwt., c.i.f.

**QUININE.**—After the speculative business last week German makers on Saturday raised their quotations for



sulphate by 1*d.* per oz. to 1*s.* without engagement. This move gave a further fillip to the speculators, and on Monday about 50,000 oz. of B. & S. or Brunswick changed hands on the spot at 1*s.* 0½*d.* for old import to 1*s.* 0¾*d.* for new, and for April delivery at 1*s.* 0¾*d.*, and May at 1*s.* 1*d.* per oz. On Tuesday the tone was said to be quieter, though a fair business was done at the previous day's figures, and on Wednesday 1*s.* 0½*d.* was paid for B. & S. on the spot. Howards' sulphate has been advanced to 1*s.* 2*d.* per oz. for 100-oz. tins, Whiffen's 1*s.* 0½*d.*, Imperial 1*s.*, and Java 1½*d.* To-day we hear that a moderate quantity has been disposed of at 1*s.* 0¾*d.* on the spot. The turnover for the week is estimated at 250,000 ozs. Makers have also raised their price for salts other than sulphate, the new quotations for the more important salts in 1-oz. vials being as follows:—Quinine benzoate, 1*s.* 11*d.*; bi-hydrobromide, 2*s.*; bi-hydrochloride, 1*s.* 11*d.*; hydrobromide, 1*s.* 9*d.*; hydrochloride, 1*s.* 9*d.*; hypophosphite, 2*s.* 5½*d.*; phosphate, 1*s.* 11*d.*; salicylate, 1*s.* 9*d.*; and tannate, 1*s.* 2*d.* per oz. 100-oz. lots in one tin are charged 4*d.* per oz. less. The latter advances vary according to the quinine-hydrate content of the salts.

*Note.*—Apart from the manufacturers' movements the situation is unchanged, and the speculative transactions, allowing for the reselling which has been going on, do not much exceed a fortnight's supply of quinine for the whole world, showing how well the manufacturers control their outlet by their policy of supplying consumers only. It is a remarkable fact that the present movement has had scarcely any influence upon the consumptive demand; there has been no rush by pharmacists for the article. The future largely depends upon the reports from Java, and if the small January shipments are repeated several times we are likely to see the German sulphate 1*s.* 3*d.* per oz. Consumption of quinine has been keeping pace with the output of bark, and the stocks of both articles are comparatively small.

**RHUBARB.**—A fair business has been done in rough horny Canton at 6½*d.* to 6¾*d.*, and fair round rough Canton of good fracture at 11*d.* per lb. Shensi and High-dried are quiet, and little business has transpired since the auctions. Some forty cases have been delivered from the warehouses this week.

**SAFFRON.**—The importers' price remains at 44*s.* per lb. nominally for finest picked Valentia, and they say it is impossible to replace under this figure. In second hands, however, business has been done at 38*s.* 6*d.* for fair seconds. Price in Spain has advanced 6 pesetas per kilo. this week.

**SARSAPARILLA.**—The 15 bales of Lima-Jamaica offered in sale last week, and bought in at 1*s.* 2*d.* per lb., were afterwards sold at 1*s.* to 1*s.* 1*d.* per lb., according to damages. A fresh supply of this variety has come to hand, and will be offered next week. Jamaica remains scarce, with no arrivals.

**SEEDS.**—Russian *Anise* sells at 17*s.* per cwt. *Cumin* firm, with business doing in Malta at 30*s.*, and Mogador at 24*s.* 6*d.* per cwt. *Fenugreek* quiet, at 8*s.* 6*d.* per cwt. *Canary.* More business doing at recent rates; Turkish is quoted at 27*s.* 6*d.* per qr. *Caravays* slightly dearer, at 22*s.* 6*d.* per cwt.

**SENEGA.**—Is firmly held and scarce on the spot, at 1*s.* 2½*d.* per lb., London terms.

**SENNA.**—Up to Wednesday there were no arrivals of Tinnevely leaf, and although there have been a good many enquiries, little business has resulted this week, owing to the high figures asked in second hands. Since the auctions there has been a little inquiry for Alexandrian, and fair picked leaf has been placed at 5½*d.* and siftings at 2½*d.* per lb.

**SPICES.**—A quiet market this week with very few variations in prices. The auctions on Wednesday went off flatly, the bulk of the goods offered being bought in. Some African *Ginger* was sold at 19*s.* 6*d.* per cwt., but all the Cochins was withdrawn without bids. Bengal sells privately at 21*s.*, and Japan at 20*s.* per cwt. Zanzibar *Cloves* firm: fair to good sold at 3½*d.* to 3¾*d.* per lb.; but since easier with business at 3¾*d.* for March-May delivery. Good Amboyna brought 5¼*d.* per lb.; good bright picked Penang, 7½*d.*; and ordinary, 6½*d.* per lb. *Pepper* steady: Singapore black bought in, but sales are being made privately at 5¼*d.* per lb.; the market for arrival is easier, with business at 5½*d.* for March-May

shipment. Singapore white bought in at 8½*d.*, and Penang white at 7½*d.* per lb.

**STAR-ANISE.**—Hong-Kong advices, dated January 7, report that there has been a gradual decline in price, with sales of about 300 piculs at \$46½ to \$45½.

**SULPHUR.**—Private advices from Sicily report a firmer market, and to-day's quotations are:—Foreign flowers, 6*l.* 10*s.*; roll brimstone, 6*l.* 2*s.* 6*d.* to 6*l.* 5*s.*, and recovered at 96*s.* per ton; best thirds, 77*s.* c.i.f.

**VERMILION.**—British makers on Monday advanced their prices 1*d.* per lb.; current quotations now being 2*s.* 2*d.* for 300 lbs., 2*s.* 3*d.* for 150 lbs. and upwards, and 2*s.* 4½*d.* for less quantity.

**WAX, JAPAN.**—Firm. Cables from Japan this week quote 29*s.* 6*d.* per cwt. c.i.f., and on the spot 31*s.* to 32*s.* is asked. Since the above quotations we hear that a large business has been done for the Continent at 28*s.* 6*d.* for April steamer.

## Coming Events.

### Monday, February 13.

*Pharmaceutical Society of Ireland*, 67 Lower Mount Street, Dublin, at 8.15 p.m. Evening meeting. Paper on "Compressed Tablets," by Mr. Geo. Brown.

### Tuesday, February 14.

*Bradford and District Chemists' Association*, County Restaurant Bradford. Musical evening arranged by Mr. Severs.

*Pharmaceutical Society of Great Britain*, 17 Bloomsbury Square, W.C., at 8 p.m. Evening meeting. "Adverse Conditions and their Remedies in the Life of Plants," by Professor J. Reynolds Green.

### Wednesday, February 15.

*Royal Microscopical Society*, 20 Hanover Square, W., at 7.30 Meeting and exhibition of objects shown by multiple-colour illumination by Mr. J. Rheinberg.

*Western Chemists' Association*, Westbourne Restaurant, W., at 9 p.m. Discussion on the draft Pharmacy Bill, 1899, opened by Mr. R. H. Parker.

*Pharmaceutical Society of Great Britain* (North British Branch), 36 York Place, Edinburgh, at 8.30 p.m. Evening meeting. The following papers will be read, "The Official Granular Effervescent Preparations," by Messrs. Davidson and Lunan; "Concentrated Decoctions and Infusions and Ung. Zinci Oleatis," by Mr. G. F. Merson; "Pharmacists and Urine Analysis: a Practical Note," by Mr. A. Currie.

*Nottingham and Notts Chemists' Association*, at Albert Hotel, at 8.30 p.m. "The Suggested Draft Pharmacy Bill."

### Thursday, February 16.

*Royal Institution of Great Britain*, Albemarle Street, Piccadilly, W., at 3 p.m. Dr. Allan Macfadyen on "Toxins and Antitoxins."

*Chemists' Assistants' Association*, 73 Newman Street, W., at 9 p.m. Paper by Dr. R. J. Hewlett on "Antitoxins, their Preparations, Properties, and Administration."

*Chemical Society*, Burlington House, Piccadilly, W., at 8 p.m. Mr. W. N. Hartley, F.R.S., on the absorption spectrum and constitution attributed to cyanuric acid.

*North Staffordshire and District Chemists' Association*, Copeland Arms Hotel, Stoke-on-Trent, at 6.30 p.m. The proposed Pharmacy Bill will be discussed.

A FIRE broke out this morning (Thursday) on the premises of the Cork Company (Limited), Minorities, E.C., and is still burning as we go to press in the evening.

FROM the *Liverpool Daily Post*:—A druggist, established in a Liverpool suburb, advertised himself as coming from Clay & Abraham's. On his death, a few years ago, a correspondent heard a lady remark that he had returned to clay and Abraham.

**THEFT FROM A SHIELDS CHEMIST.**—At South Shields, on Wednesday, Lily Annie Taylor (19), a domestic servant, was remanded on a charge of stealing from the house of Mr. Mays, chemist, Market Place, jewellery, clothing, and money to the value of 20*l.*

FURTHER evidence in the Vogeler v. Hockstra case has been heard by Mr. Hemming, Q.C., in the Official Referee's Court of the Chancery Division this week, the plaintiff giving his view of the matter through an interpreter. The case is proceeding.



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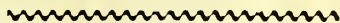
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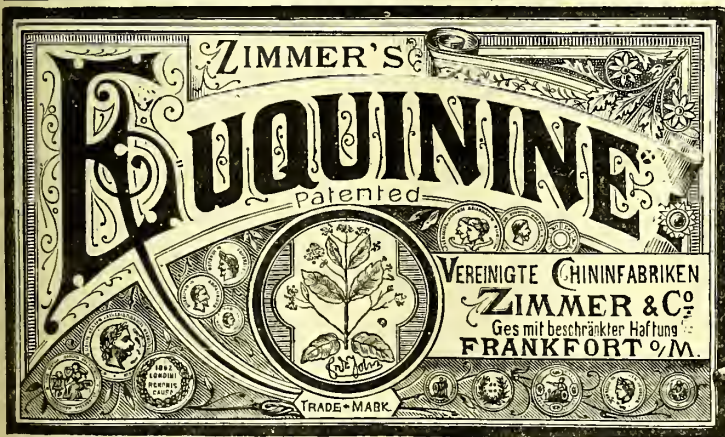
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We shall be delighted to recommend Customers to you. And as no one is allowed to sell under our marked prices, or face value,

## WE GUARANTEE FAIR RETURNS.

We trust you will either stock our article direct from us or secure supplies from your usual Drug or Sundry House.

## SUPPORT US.

Our "D. C. L." Malt Extract is put up in 8-oz., 16-oz., and 52-oz. Bottles (fluid capacity), to sell at 1/-, 1/9, and 4/6 each respectively. Our prices to Retailers are 9/6, 16/6, and 43/6 per dozen net. Carriage paid on 3-dozen lots. "D. C. L." Malt Extract and Cod Liver Oil is put up in same sizes of Bottles and at same prices as our plain "D. C. L." Malt Extract. No other firm will give you the same value. Our quality is unrivalled in appearance, flavour, and starch-converting power. We can prove this from Analysts' reports and extracts from Medical Press, but if you prefer to rely on your own research we shall be happy to send you a free sample. Write to us,

**THE DISTILLERS COY., LIMITED, EDINBURGH.**

We believe many Chemists would find it profitable to sell our celebrated "D. C. L." Yeast, which has been extensively advertised for years, and is renowned all over the United Kingdom both for Home use and Bakery purposes. In some districts it is difficult for us to get Agents, and a Chemist would be just the right party to supply Families. If you are favourably disposed to the idea, write to

**THE DISTILLERS COY., LIMITED, EDINBURGH.**

Showcards, Pamphlets, and Booklets, re "D. C. L." Malt Extract and "D. C. L." Yeast, on application.



# TARTARIC ACID

POWDER, CRYSTALS, AND GAZOGENE CRYSTALS.

**KIRKPATRICK, BARR & GUTHRIE**

**4 Cullum Street, London, E.C.**

**SOLE AGENTS**

FOR THE

**GERMAN AND AUSTRIAN MAKERS' CONVENTION**

FOR THE UNITED KINGDOM AND COLONIES.

**STOCKS KEPT AT ALL CENTRES.**

**THOMAS TYRER & CO., LIMITED,**

Chemical Works, Stratford, London, E. Established 1844.

**"STERLING BRAND"**

**BISMUTH AND MERCURIAL PREPARATIONS,  
ETHERS, PYROXYLINS, COLLODIONS,**

And Chemicals for Scientific and Technical Purposes

**GLYCERINE PASTILLES,**  
Glycerine and Black Currant Pastilles,  
**DELECTABLE JUJUBES,**  
**VOICE JUJUBES, &c., &c.**

In bulk, or in fancy 2-oz. or 4-oz tins.

*Special Formulæ made up into Pastilles.*

**J. DENOVAL & CO.**

Carlton Works, New Cross Road, LONDON, S.E.

AGENTS WANTED in EVERY TOWN  
FOR

**"EUGOL"**  
**PREPARATIONS**

MANUFACTURERS:

**BAYARD, SONS & BAYARD,**  
NEW YORK, LONDON, AND PARIS.

London Depot—26 Bridle Lane, Golden Square, W.



# Mitchell's CASTOR OIL

The *Lancet* of 8th June, 1895, says:—"MITCHELL'S PROCESS of extracting and refining Castor Oil is obviously an improvement which the profession cannot fail to approve and welcome, since in removing the great objection to the Oil—namely, that of repulsive taste, as well as in securing its full therapeutic effect—it is calculated to assist and to facilitate the administration of a very valuable therapeutic agent."



The *British Medical Journal* of 18th May, 1895, says:—"Castor seeds have, unless very old, a pleasant nutty flavour, and the disagreeable taste of ordinary Castor Oil has been produced by the conjoint action of moisture, air, heat, and fermentative changes during the expression of the Oil from the Seeds and its subsequent treatment. An oil can be obtained as pleasant to the taste as the fresh seed, if the expression is not assisted by artificial heat, and the Oil at once freed from impurities by filtration without heat, in vessels from which air is excluded, and bottled *in vacuo*. . . . By MITCHELL'S COLD PROCESS . . . the Oil thus obtained has a simple bland taste, resembling olive oil, the nauseous taste associated with the ordinary Cold Drawn Castor Oil being entirely absent."

The *Hospital* of 8th June, 1895, says:—"We have tested the samples sent us both clinically and chemically, and the results are excellent. . . . We have never yet met with an Oil that had not this taste till we tried Mitchell's. . . . We consider this oil the very best we have met with, and can cordially recommend its use to the profession."

Put up in 2, 4, & 8 oz. bottles, to be retailed at 6d., 9d., & 1s.

Also supplied in  
WINCHESTERS at low prices, which will be forwarded on application.

FOR PARTICULARS AS TO DISCOUNTS, &c., APPLY

**THE UNITED BRITISH CASTOR OIL CO., LTD.**  
OSSORY ROAD, LONDON, S.E.

EXACT FACSIMILE



**THE MOST  
POPULAR  
REMEDY  
OF THE DAY.  
SELLS AT SIGHT.**

Has the Largest Sale  
of any Smelling Bottle  
in the World.

Wherever introduced has become a general favourite, giving universal satisfaction to both buyer and seller, commanding an increasing sale through personal recommendation.

Bears a larger profit than a fancy bottle, without the trouble of filling.

It is the best-got-up Shilling Article in the market.

Correspondence solicited from pushing houses publishing Price Lists.

Wholesale from all Patent Medicine Depôts.

OF BOTTLE AND LABEL.

Artistic Show Cards and Printed Matter from  
**MACKENZIE'S CURE DEPOT, READING.**

## THIERRY'S MARVELLOUS BALSAM & OINTMENT



TRADE MARK.

ARE THE  
Best known and most  
extensively used Remedies  
on the Continent,

AND

**ARE NOW BEING  
LARGELY ADVERTISED**

**IN THE  
UNITED KINGDOM.**

PRICES—

|                               |          |         |      |
|-------------------------------|----------|---------|------|
| Thierry's Marvellous Balsam   | ... 1/1½ | PER DOZ | 10/6 |
| Thierry's Marvellous Ointment | ... 2/9  |         | 24/- |

A single dozen will be sent at above prices Carriage Paid.

**5% EXTRA DISCOUNT ON ORDERS OF A GROSS & UPWARDS.**

SHOWCARDS, &c., SENT ON APPLICATION.

Address—A. THIERRY, 89 Farringdon St., LONDON, E.C.



# BRUNNER, MOND & CO.'S

Alkali  
Products.



Crescent  
Brand.

These products are made by the Ammonia Process, and are distinguished from others by their great purity.



## Bicarbonate of Soda.

A pure, refined, and recrystallised salt is particularly notable by its freedom from metals, or any base other than soda. Gives no appreciable reaction for sulphates, and contains not more than 0.035 per cent. of sodium chloride, a trace which scarcely gives "the slightest characteristic reaction" of the B.P.

This sodium bicarbonate is well adapted for the preparation of granular effervescent preparations and salines, seidlitz powders, baking powders, and for other medicinal and domestic purposes. It is the purest and cheapest sodium bicarbonate made.



## Concentrated Crystal Soda.

This sodium compound (sodium sesquicarbonate) is a variety of carbonate of soda in small silky crystals, containing much less water than ordinary washing soda; 1 lb. of it does the work of 2 lbs. of washing soda. Concentrated crystal soda is excellently suited for chemists' trade; they can make a speciality of it, and it is also suited for making water-softeners, brush powders, hair-wash powders, and the like.



## Pure Alkali, 58 degrees.

A dry white powder; dissolves quickly and easily in water, making an excellent detergent for use by printers, bleachers, dyers, and for bottle washing. Is nearly equal to 99 per cent. carbonate of soda; is much used by glass, paper, and soap makers. The best alkali for soap powders and washing powders.

ALSO

Soda  
Crystals.

Caustic  
Soda.

Bleaching  
Powder.

Manufactured from pure Carbonate, and  
supplied of all degrees of strength.

Retailers can obtain these products through any Wholesale house by specifying Brunner, Mond & Co.'s "Crescent" Brand. The manufacturers supply wholesale quantities only, and will quote on application to

**BRUNNER, MOND & CO., LIMITED, NORTHWICH, CHESHIRE.**



"ANGLO-NORWECIAN"

# Cod=Liver Oil (1899.)

Our New 1899 Oil just arrived.  
We are now booking Orders.  
Send for Quotations.

ALSO IN BOTTLES WITH ARTISTIC  
LABELS FOR CHEMIST'S NAME, &c.  
PRICES ON APPLICATION.

**EVANS, LESCHER & WEBB,**

60 Bartholomew Close, London.

## ABSOLUTELY PURE LIGHT Carbonate of Magnesia

IN FINE POWDER,

For Technical Purposes, Boiler and Steam-pipe  
Covering,  
Printing Ink and Dynamite Manufacturing, &c.

APPLY FOR PARTICULARS TO  
**SCHOELLKOPF, HARTFORD & MACLAGAN, LTD.,**  
100 William St., NEW YORK, U.S.A.,

SELLING AGENTS FOR  
**THE AMERICAN MAGNESIA COMPANY.**

ESTABLISHED 1760.

## DUNHILL'S LICORICE CAKES.

All  
Chemists  
should stock these,  
the oldest and best known.

Stocked by the Leading Wholesale Houses.

Free samples on  
application.  
Colonial and Foreign  
Agents wanted.

**DUNHILL & CO.**  
**PONTEFRACT.**

## A GOOD PILL

and

## A GOOD PROFIT.

# Dr. SCOTT'S PILLS

ARE PROTECTED UNDER THE P. A. T. A. SCHEME.

|           |     |     |     |     |     |                                   |
|-----------|-----|-----|-----|-----|-----|-----------------------------------|
| 1/1½ size | ... | ... | ... | ... | ... | Wholesale Price, 10/- per dozen.  |
|           |     |     |     |     |     | Minimum Retail Price, 1/- ,, box. |
| 2/9       | ..  | ... | ... | ... | ... | Wholesale Price, 24/- ,, dozen.   |
|           |     |     |     |     |     | Minimum Retail Price, 2/6 ,, box. |

These Pills can be safely recommended by all Medicine Vendors as a mild and effectual aperient for both sexes. They never cause griping. They are useful for all Bilious and Liver Complaints, Indigestion, Wind, Spasms, Nervous Depression, Irritability, Lassitude, Loss of Appetite, Dyspepsia, Heartburn, &c.

Messrs. LAMBERT & CO. will be pleased to supply Handbills, with Name and Address, CARRIAGE PAID, on receipt of Business Card direct to  
173 Seymour Place, London, W.



GOLD MEDAL

# The NEW VAPORISER

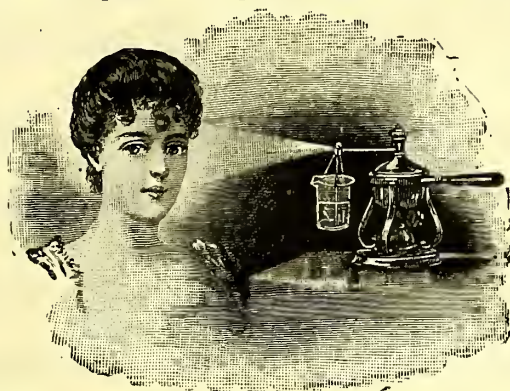
AWARDED.

PATENTED] "OUR OWN." [AND REGISTERED.

Patronised by Members of the Royal Family and the *Élite of Society.*

Recommended by  
the Highest Medical  
Authorities.

On every Toilet Table,  
in every Nursery,  
in every Sick Room,  
this Vaporiser is  
Invaluable.



## RETAIL PRICES.

|   | Price |
|---|-------|
| "OUR OWN," Nickel-plated                | 15/-  |
| "OUR OWN," Silver-plated                | 21/-  |
| "OUR OWN," Bronze, with Silver Fittings | 25/-  |
| ALL ENGLISH MADE.                       |       |

It is the best means of obtaining and preserving a clear complexion, and is specially recommended for the self-administration of spray remedies in all diseases which affect the skin, throat, lungs, mouth, eyes, ears, and head.

EAU DE LIS... .. 2/6 per bottle.

"IO" LOTION ... .. 2/6 per bottle.

LOTION DÉTERGENTE, 3/6 per bottle.

All three preparations are used in conjunction with the Vaporiser.

The Electric Rouleau-Masseur and Battery complete, price £2 12s. 6d.

PATENT ELECTRIC HAIR BRUSH, price 15s.

Wholesale and Retail Agents for all the Toilet Preparations and Perfumery of the Société Hygénique, 55 rue de Rivoli, Paris.

Pamphlets for Distribution, Carriage Paid. Write for Full Particulars from

THE FRENCH HYGIENIC SOCIETY, 6 CONDUIT ST., REGENT ST., LONDON, W.

# SCHERING'S PURE FORMALIN

CLEAN, EFFECTIVE, NON-POISONOUS

**Most Powerful Disinfectant & Deodorant**

Awarded the BRONZE MEDAL at the Sanitary Exhibition at Leeds, 1897, and Birmingham, 1898.

# SCHERING'S GLUTOL

(According to Dr. Schleich.)

A New Form of Antiseptic Treatment of wounds. GLUTOL is a fine, antiseptic powder, forming a firm scab within a short space of time, and stopping acute purulent process by liberation of formalin vapour.

FOR LITERATURE APPLY TO

**THE FORMALIN HYGIENIC COMPANY, LIMITED**

9 & 10 ST. MARY-AT-HILL, LONDON, E.C.



# PROTECTION FOR THE CHEMIST.

---

Each and every box of **JOHNSON & JOHNSON'S** Belladonna Plaster, whether in 1-yard or 5-yard rolls, the regular porous back or breast Plasters, will contain a distinct guarantee over **JOHNSON & JOHNSON'S** Signature that the Plaster in the box specified conforms to the requirements of the B.P. 1898.

In addition to this, in each and every box will be placed a slip showing the actual analysis of the Plaster or Plasters the box contains.

This assures the safety of Chemists purchasing **JOHNSON & JOHNSON'S** Belladonna Plasters.

**NO CHANGE IN PRICES.**

CAN BE OBTAINED FROM ALL WHOLESALERS, OR  
DIRECT FROM

**JOHN TIMPSON & CO.,**

104 Golden Lane, E.C.

*Look at the opposite page.*

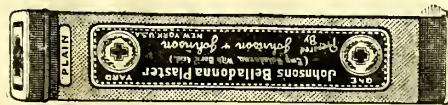


# BELLADONNA PLASTERS AT A GLANCE.

Exact Copy of Belladonna Plaster in the  
B.P. 1898.

## CONSTITUENTS OF BELLADONNA . . .

Atropine.  
Hyoscyamine.  
Belladonnine.  
Atropamine.  
Apoatropine.  
Starch.  
Malic Acid.  
Chrysotropic Acid.  
Leuxotropic Acid.  
Succinic Acid.  
Acetic Acid.  
Pondatorin.  
Phyteumscolla.  
Gum, Wax, Mucilage,  
Asparagin, Albumin.  
Atrosin.  
Chlorophyll.  
Potassium Salts. |  
Magnesium Malate and  
Phosphate.  
Calcium Malate and  
Oxalate.  
Sodium Phosphate.  
Ammonium Salts.



Melt the Plasters on a water bath; then add the Extract of Belladonna, and continue the heat, stirring constantly, until a homogeneous mass results.

*Johnson's Belladonna Plaster conforms strictly to the B.P. 1898 in strength and kind of drug used.*

## BELLADONNA PLASTER.—JOHNSON & JOHNSON'S FORMULA.

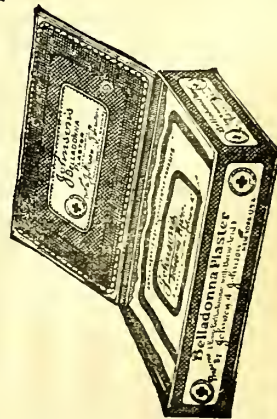
Belladonna gathered in proper time and season extracted with alcoholic menstruum so as to retain all soluble constituents of the drug by macero-percolation, reduced in vacuo to a semi-solid extract. Incorporated by mixing cold with plaster mass.

## JOHNSON'S BELLADONNA PLASTER CONTAINS ALL THE SOLUBLE CONSTITUENTS OF BELLADONNA IN ABSORBABLE FORM.

*The essential feature of Johnson & Johnson's Belladonna Plaster is the use of an absorbent promoting base that frees the pores from fatty matter, thus insuring reliable and increased action of the drug.*

Each and every box of Johnson & Johnson's Belladonna Plasters contain a warranty over their signature that the plasters contained in the box conform to the requirements of the B.P. 1898.

Also each and every box contains a statement showing the analysis of the plasters in that identical box.



28 Victoria Street, Westminster,  
Messrs. JOHN TIMPSON & Co.

DEAR SIRS,—

I have made a careful examination of Johnson & Johnson's Belladonna Plasters.

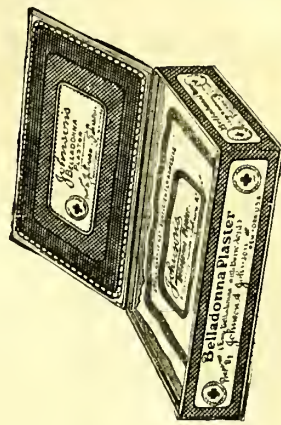
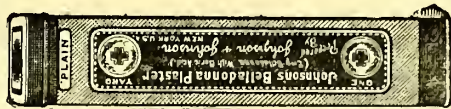
The result of three careful extractions of the plaster mass titrated with Mayer's reagent, and using Dragendorff's factor of 0.0414 for Belladonna alkaloids is 0.489 %.

I hereby certify that 0.489 of Alkaloids were present in Johnson & Johnson's Belladonna Plasters.

I have further identified the alkaloid as Atropine, and proved the absence of Hyoscyamine and Scopolia Extract.

Yours faithfully,

SAMUEL RIDEAL, D.Sc.Lond., F.I.C.





## HOT WATER BOTTLES, RUBBER BANDAGES. &amp;c., &amp;c.

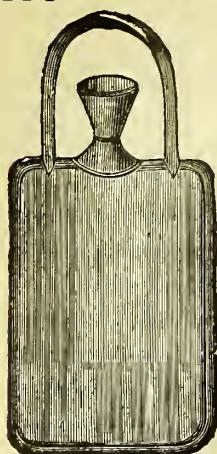


FIG. 955

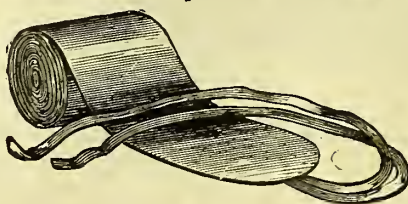


FIG. 400.

## THE "EMPIRE" PURE PARA BANDAGES (Fig. 400).

|                 | Width, in. | 5 ft. | 7½ ft. | 10½ ft. | 15 ft. | 21 ft.    |
|-----------------|------------|-------|--------|---------|--------|-----------|
| Light Substance | 3          | 1/-   | 1/6    | 1/11    | 2/10   | 3/9 each. |
| "               | 2½         | -/11  | 1/4    | 1/9     | 2/6    | 3/5 "     |
| Heavy           | 3          | 1/-   | 1/6    | 2/-     | 3/-    | 4/- "     |
| "               | 2½         | 1/-   | 1/6    | 1/10    | 2/9    | 3/8 "     |

Plain, Pricked, or Perforated are all the same price.

## CLINICAL THERMOMETERS (Guaranteed English Make).

|  | Ordinary. | Flat Back. | Lens Front. | 30-sec. | 30-sec. Lens Front. |
|--|-----------|------------|-------------|---------|---------------------|
|  | 13/6      | 21/-       | 30/-        | 27/-    | 43/- doz.           |

Name Engraved Free for Orders of not less than 1½ doz.

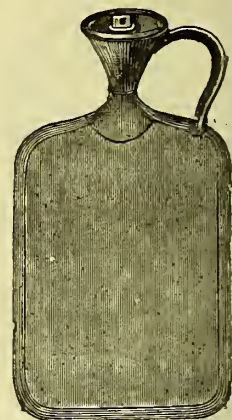


FIG. 957.

## HOT WATER BOTTLES (Figs. 955 or 957).

| Size.   | Light Substance. | Heavy Substance. | Covers.   | Size.    | Light Substance. | Heavy Substance. | Covers.    | Size.    | Light Substance. | Heavy Substance. | Covers.   |
|---------|------------------|------------------|-----------|----------|------------------|------------------|------------|----------|------------------|------------------|-----------|
| 8 by 6  | 2/-              | 2/6              | -/9 each. | 12 by 6  | 2/9              | 3/6              | -/11 each. | 14 by 8  | 4/-              | 5/-              | 1/- each. |
| 10 by 6 | 2/5              | 3/-              | -/9 "     | 12 by 8  | 3/6              | 4/6              | 1/-        | 14 by 10 | 4/6              | 5/6              | 1/2 "     |
| 10 by 8 | 3/-              | 3/9              | -/11 "    | 12 by 10 | 4/-              | 5/-              | 1/-        | 14 by 12 | 5/3              | 6/6              | 1/3 "     |

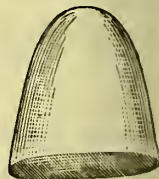
Owing to the continued advance in Price of Raw Rubber we are compelled to add an advance of **10 per cent.** to above Prices of Hot Water Bottles and Rubber Bandages. This advance will be taken off immediately the state of the Rubber Market will permit. We are convinced that a Trial Order will show better value than others in the market. Our Polished "Empire" Enema Syringe, at 17/- dozen, plus 10 per cent. advance, is still without a rival as a high-class article at a low price. **Will not get hard in cold weather.**

Write for Free Illustrated Catalogue and compare our Prices with other Houses. The Quality of all our Goods we guarantee to be the Best.

**BURGE, WARREN & RIDGLEY, 91 & 92 GREAT SAFFRON HILL, LONDON, E.C.**

## RENDELL'S

"WIFE'S FRIEND" SOLUBLE QUININE PESSARIES.



## IMPORTANT NOTICE AND CAUTION


Several Injunctions in the High Court of Justice having already been obtained against "Infringers" (reports of which have appeared in "The Chemist and Druggist," the most recent being in issues of April 24 and May 29, 1897, and March 19, 1898), W. J. RENDELL'S SOLICITORS are instructed to take proceedings against all persons (Makers or Vendors) fraudulently using the name of "W. J. RENDELL," "RENDELL," or any colourable imitation thereof, in connection with Pessaries **not** manufactured by

**W. J. RENDELL,**

Inventor and Sole Maker of the "WIFE'S FRIEND" SOLUBLE PESSARY,

**15 CHADWELL STREET, CLERKENWELL, LONDON, E.C.**

See that the Registered Trade Mark and Number (but in red ink) are upon each box thus:—

Registered  
Trade Mark   
without which  
none are genuine.  
No. 182,688.

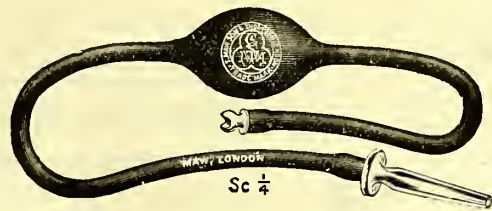
*W. J. Rendell*

Registered also in Australia, India, The Cape, The Argentine, Germany, &c.



MAW'S

SEAMLESS



S. MAW, SON & THOMPSON,  
7-12 Aldersgate Street, LONDON.

ANTISEPTIC DRESSINGS, &c.

|                                      |     |     |     |     |                 | Percentage | In Paper<br>Parcels | In Boxes | In Sealed<br>Tins |
|--------------------------------------|-----|-----|-----|-----|-----------------|------------|---------------------|----------|-------------------|
|                                      |     |     |     |     |                 |            | s. d.               | s. d.    | s. d.             |
| <b>GAUZES</b> (36 in. wide)—Boric    |     |     |     |     |                 | 25         | 1 9                 | 2 0      | 2 3               |
| Carbolized, unbleached               | ... | ... | ... | ... | per dozen yards | 5          | 1 8                 | 1 11     | 2 2               |
| Iodoform                             | ... | ... | ... | ... | " "             | 10         | 4 0                 | 4 3      | 4 6               |
| Iodoform                             | ... | ... | ... | ... | " "             | 5          | 4 0                 | 4 3      | 4 6               |
| Lister's Cyanide of Mercury and Zinc | ... | ... | ... | ... | " "             | 3          | 3 2                 | 3 5      | 3 8               |
| Sal Alembroth                        | ... | ... | ... | ... | " "             | 1          | 1 9                 | 2 0      | 2 3               |
| Salicylic                            | ... | ... | ... | ... | " "             | 4          | 2 4                 | 2 7      | 2 10              |
| Sublimate, Unbleached                | ... | ... | ... | ... | " "             | 1/4        | 1 6                 | 1 9      | 2 0               |
| <b>LINTS</b> —Boric                  |     |     |     |     |                 | 45         | 1 6                 | 1 9      | 2 0               |
| Carbolized                           | ... | ... | ... | ... | per lb.         | 5          | 2 0                 | 2 3      | 2 6               |
| Cyanide of Mercury and Zinc          | ... | ... | ... | ... | " "             | 3          | 3 4                 | 3 7      | 3 10              |
| Iodoform                             | ... | ... | ... | ... | " "             | 10         | 5 0                 | 5 3      | 5 6               |
| Sal Alembroth                        | ... | ... | ... | ... | " "             | 2          | 2 1                 | 2 4      | 2 7               |
| Salicylic                            | ... | ... | ... | ... | " "             | 4          | 2 4                 | 2 7      | 2 10              |
| Sublimate                            | ... | ... | ... | ... | " "             | 1/4        | 2 0                 | 2 3      | 2 6               |
| <b>WOOLS</b> —Boric                  |     |     |     |     |                 | 45         | 1 4                 | 1 7      | 1 10              |
| Carboliz d                           | ... | ... | ... | ... | " "             | 5          | 1 6                 | 1 9      | 2 0               |
| Cyanide of Mercury and Zinc          | ... | ... | ... | ... | " "             | 3          | 2 8                 | 2 11     | 3 2               |
| Iodoform                             | ... | ... | ... | ... | " "             | 10         | 4 6                 | 4 9      | 5 0               |
| Sal Alembroth                        | ... | ... | ... | ... | " "             | 2          | 1 6                 | 1 9      | 2 0               |
| Salicylic                            | ... | ... | ... | ... | " "             | 4          | 1 9                 | 2 0      | 2 3               |
| Sublimate                            | ... | ... | ... | ... | " "             | 1/4        | 1 4                 | 1 7      | 1 10              |

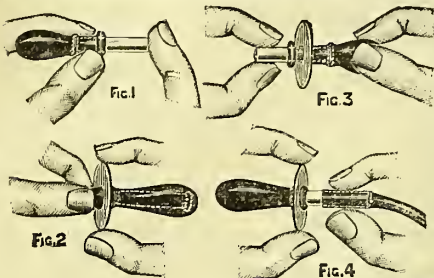
S. MAW, SON & THOMPSON, 7 to 12 Aldersgate Street, LONDON.





# PATENT HOLDFAST SOOTHERS AND FEEDING BOTTLE UNIONS.

Well moisten Union and push into Teat, as shown in Fig. 1.  
Pull Teat through hole in Shield, Fig. 2.



Pull Teat up to shoulder, Fig. 3.  
To detach pull off tubing, as Fig. 4, and push back Union into Teat.

## ADVANTAGES.

Absolute fixture of Teat and Shield, therefore impossible to get out of place by accident.

Complete Bone and Rubber Rings. Attractive get up, with Whistles, Bells, &c.

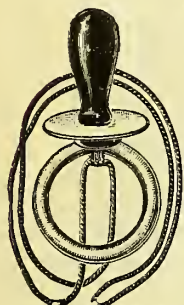
1d., 2d., 3d., 4d., 6d., and 1s. lines.

If you cannot obtain from your Wholesale House send for samples. More than one hundred to choose from.

Patentee and Manufacturer—

**A. S. CARTWRIGHT,**  
75 Ford Street, Hockley,  
Birmingham.

Wholesale and Shippers only.



"NON PLUS ULTRA"

# CATHETERS and BOUGIES

WARRANTED WOVEN EYES, SOLID ENDS, VERY FLEXIBLE AND STRONG WEB.

|                          |    |    |    |      |            |
|--------------------------|----|----|----|------|------------|
| Cylindrical              | .. | .. | .. | 7/6  | per dozen. |
| Conical                  | .. | .. | .. | 8/6  | "          |
| A Boule or Olive pointed | .. | .. | .. | 9/6  | "          |
| A Condée or Mercier      | .. | .. | .. | 15/- | "          |

Large Discount for Wholesale Buyers.

**R. MANSON** 75 Fortress Road, Kentish Town, LONDON, N.W.

# DISPENSING BOTTLES.

## THE NORTH LONDON GLASS BOTTLE COMPANY

(I. ISAACS & CO., Proprietors)

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The NEW SHAPE FLAT BOTTLES, with rounded edges, plain or graduated—

|           |                |             |                 |
|-----------|----------------|-------------|-----------------|
| 3 & 4 oz. | 7/6 per gross. | 10 & 12 oz. | 12/- per gross. |
| 6, 8, ..  | 8/6 ..         | 16 ..       | 16/- ..         |

WHITE MOULDED PHIALS, plain or graduated Teaspoons—  
1 oz. .. 3/6 per gross. 1 1/2 oz. .. 4/6 per gross.  
1 .. 3/9 .. 2 .. 5/- ..

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Six gross and upwards, assorted or otherwise, are carriage paid to any address in England; smaller quantities not carriage paid.

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| <b>TOW</b> , very superior, none better | ...              | ...     | ... | ... | 4 1/2 d. per lb.  | ...                    | 28 lbs. at 4d.      |
| " good                                  | ...              | ...     | ... | ... | 4d. per lb.       | ...                    | 28 lbs. at 3 1/2 d. |
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| <b>CLINICAL THERMOMETERS</b> , Ordinary | ...              | ...     | ... | ... | 10s. 6d. per doz. | including metal cases. |                     |
| " "                                     | "                | Lens... | ... | ... | 12s. 0d. per doz. |                        |                     |
| " { 1/2-doz. }                          | English Ordinary | ...     | ... | ... | 14s. 0d. per doz. |                        |                     |
| " { named free }                        | English Lens     | ...     | ... | ... | 24s. 0d. per doz. |                        |                     |

5 per Cent. Discount, Cash with Order, or Monthly Account.

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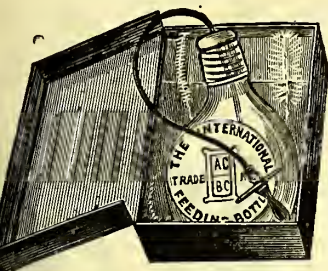
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### STOPPERED ROUNDS. Cut Globe Head Stoppers.

|      | 1   | 2   | 4   | 8   | 16  | 20  | 30  | 47 oz. |          |
|------|-----|-----|-----|-----|-----|-----|-----|--------|----------|
| N.M. | 2/2 | 2/3 | 2/8 | 3/6 | 4/6 | 5/- | 5/9 | 6/6    | Per doz. |

### Plain Globe Head Stoppers.

|      | 1    | 2   | 4   | 8   | 16  | 20  | 30  | 40 oz. |          |
|------|------|-----|-----|-----|-----|-----|-----|--------|----------|
| N.M. | 1/8  | 1/9 | 2/2 | 3/- | 4/- | 4/6 | 5   | 6/-    | Per doz. |
| W.M. | 1/11 | 2/- | 2/5 | 3/3 | 4/6 | 5/- | 5/9 | 6/6    | "        |

### COUGH MIXTURE FLATS. Panelled.

|  | 1 1/2 | 2   | 2 1/2 | 3   | 4    | 5    | 6    | 8 oz. |        |
|--|-------|-----|-------|-----|------|------|------|-------|--------|
|  | 6/-   | 7/- | 7/6   | 8/6 | 10/- | 11/- | 11/6 | 12/-  | P. gr. |

### LUNDBORGS.

|           |     | 1/2  | 1    | 1 1/2 | 2    | 3    | 4 oz. |        |
|-----------|-----|------|------|-------|------|------|-------|--------|
| Plain ... | ... | 6/-  | 7/6  | 8/-   | 9/-  | 10/6 | 11/6  | P. gr. |
| Stoppered | ... | 14/6 | 16/- | 17/-  | 18/- | 21/- | 22/-  | "      |

### WHITE METAL SCREW-CAP ROUNDS.

|  | 3/4 | 1    | 1 1/2 | 2    | 2 1/2 | 3    | 4    | 6 oz. |        |
|--|-----|------|-------|------|-------|------|------|-------|--------|
|  | 9/6 | 11/- | 12/-  | 12/- | 14/-  | 14/6 | 15/6 | 16/-  | P. gr. |

### PANEL FLATS. White Flint.

|                       | 1    | 1 1/2 | 2    | 3    | 4    | 6    | 8    | 10   | 12   | 16   | 20 oz. |        |
|-----------------------|------|-------|------|------|------|------|------|------|------|------|--------|--------|
| N.M., Plain,          | 6/-  | 7/-   | 8/-  | 10/- | 10/6 | 12/6 | 13/6 | 19/- | 21/6 | 26/- | 30/-   | P. gr. |
| Ground Glass Stoppers | 15/- | 16/-  | 17/- | 20/- | 20/6 | 25/- | 27/- | 32/6 | 35/- | 41/- | 48/-   | "      |

### GRADUATED MEASURES.

|  | 1/2 | 1   | 2   | 4   | 10   | 20   | 32   | 40 oz. |  |
|--|-----|-----|-----|-----|------|------|------|--------|--|
|  | 5/6 | 5/6 | 7/6 | 8/- | 10/6 | 13/6 | 16/- | 18/-   |  |

Bearing the Government Inspector's mark of verification.

### CHELTENHAMS. Pale Green or Pale Blue Tint.

|                                  | 1   | 2   | 3    | 4    | 6    | 8    | 10   | 12   | 16 oz. |        |
|----------------------------------|-----|-----|------|------|------|------|------|------|--------|--------|
|                                  | 5/- | 6/- | 6/6  | 7/-  | 8/-  | 9/-  | 13/- | 15/- | 16/-   | P. gr. |
| Fitted Glass Stopper, Cork Rings | —   | —   | 10/- | 11/- | 12/- | 13/- | 18/- | 21/- | 21/6   | "      |

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VACCINE ANTISEPTIC EJECTORS, 1/3. VACCINATORS which remove the cuticle without drawing blood, 5/-, post free.

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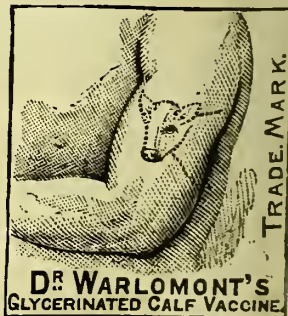
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FIG. 1.

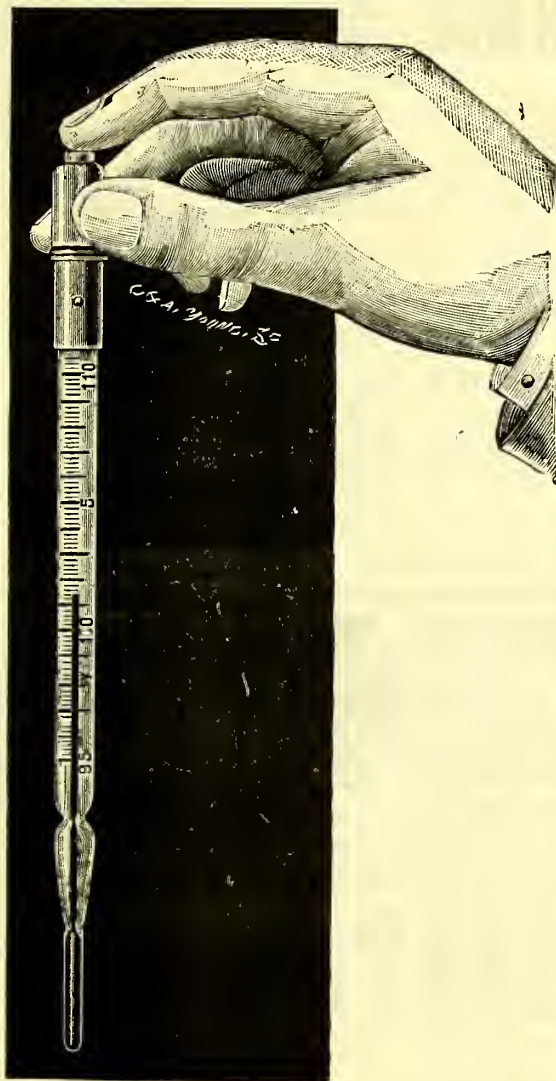


FIG. 2.



FIG. 3.

Simply pressing the knob, as shown in illustration (fig. 2), the index can be reset immediately; it cannot get out of order, and is pronounced by competent judges to be the best clinical on the market.

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Fig. 1 shows Clinical only.

Fig. 3 shows Clinical complete in case.

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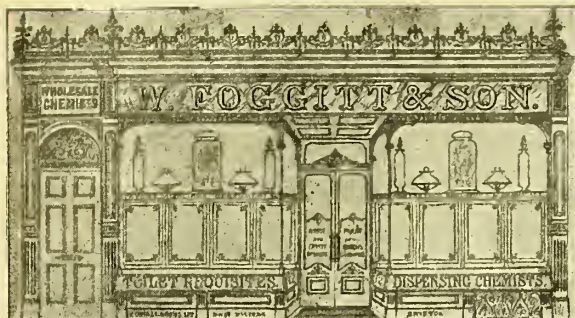
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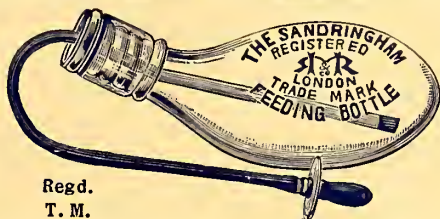


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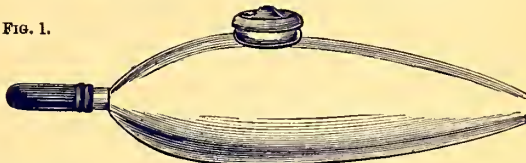
Each in handsome box, two brushes.

	Per doz.
Black fittings .. .. .	5/-
Spare black fittings .. .. .	2/-
Spare bottles .. .. .	1/3
Spare stoppers and washers .. .. .	9d.



black leech-bite teat, bone shield, complete in boxes of .. .. .	3/3
black leech-bite teat, bone shield, with brush, complete in .. .. .	5/-

Fig. 1.



White Glass, hand-made, fitted with black teat and boxwood-topped cork, with brush, complete in box, three sizes .. .. . 6/9



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Black fittings, 1 dozen in box .. .. .	2/2
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GREEN, *Screw Glass Stoppers.*

Per gross.

Black fittings, 1 gross in cask (free) 28 6	
	Per doz.
Black fittings, 1 dozen in box .. .. .	2/6
Black fittings, each in box .. .. .	2/11
Spare black fittings .. .. .	1/4
Spare green bottles .. .. .	1/-
Spare white bottles .. .. .	1/2
Spare stoppers and washers, green or white .. .. .	9d.

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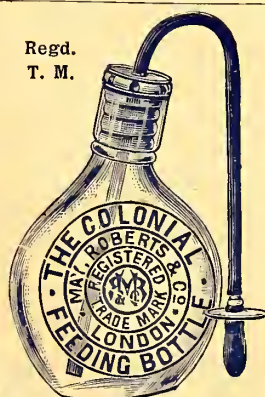
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Black fittings, each in box .. .. .	2/11
Spare black fittings .. .. .	1/4
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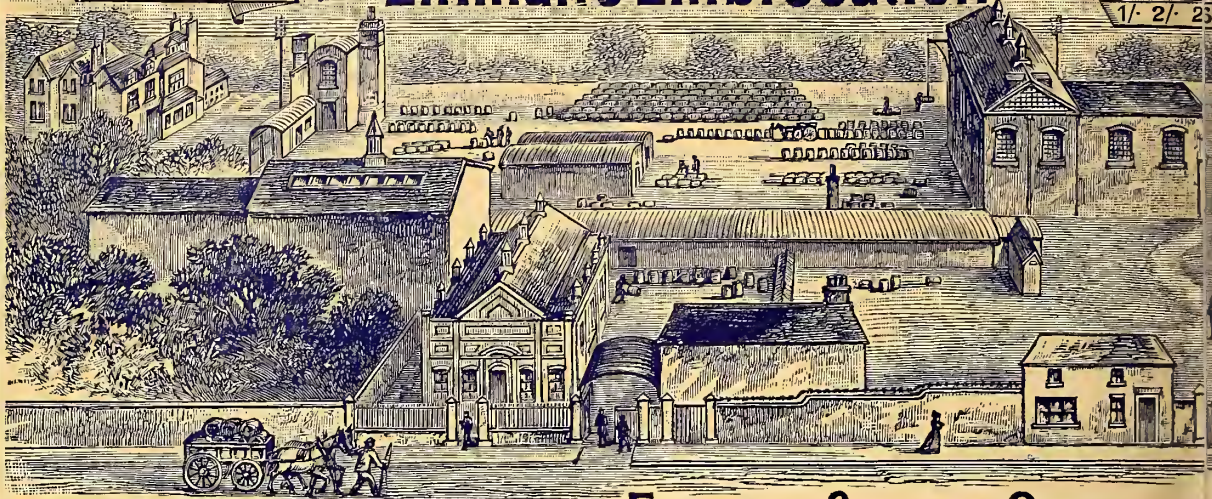
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